

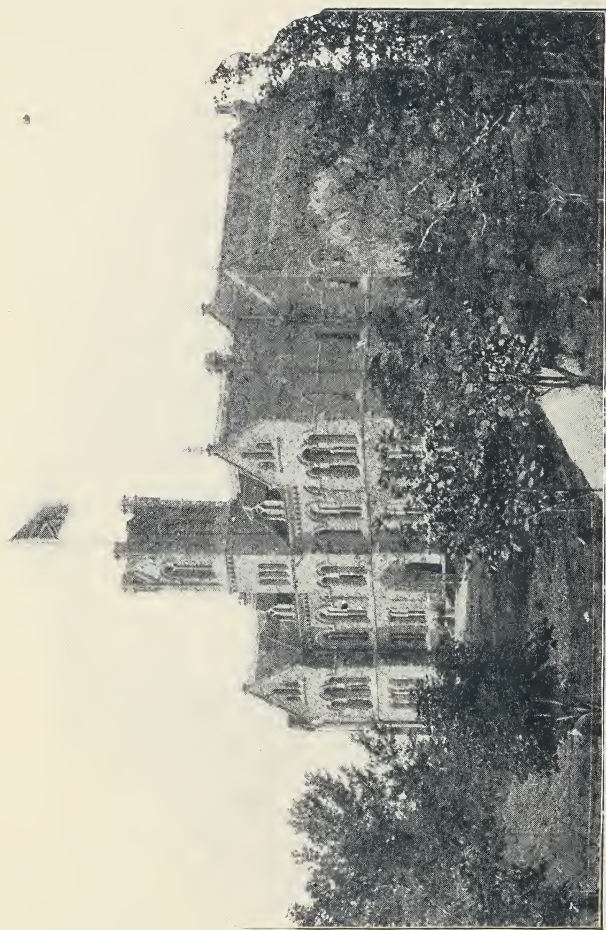






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ARTS BUILDING, QUEEN'S UNIVERSITY.

QUEEN'S UNIVERSITY

FACULTY OF MEDICINE

—AND —

ROYAL COLLEGE OF PHYSICIANS & SURGEONS

ANNUAL CALENDAR.



45TH SESSION, 1898-99.

KINGSTON:

PRINTED AT THE BRITISH WHIG OFFICE.

1898.

ACADEMIC YEAR.

1898.

- Sept. 1—Notice of intention to appear at Supplementary Pass and Arts Matriculation Examination to be given in writing to G. Y. Chown, B.A., Registrar of the University. The subjects upon which the candidate intends to write must be stated in his notice, and the fee enclosed.
- Sept. 15—Arts Matriculation and Supplementary Medical Examinations begin. (Held in University.) Notice of intention to appear at Supplementary Medical Matriculation to be given in writing to G. Y. Chown, B.A., Registrar of the University. The subjects upon which the candidate intends to write must be stated in his notice, and the fee enclosed.
- Oct. 3—Medical Matriculation Examinations begin.
- Oct. 4—Classes begin.
- Oct. 17—University Day.
- Dec. 23—Christmas holidays begin.

1899.

- Jan. 10—Classes re-open.
- Feb. 15—Holiday.
- Mar. 21—Time expires for receiving Essays for University Prizes.
- Mar. 22—Class work closes.
- Mar. 23—Time expires for registering Tickets and Certificates with the Secretary.
- Mar. 24—Examinations begin.
- April 8—Convocation for distributing Prizes, announcing honors and laureating graduates.
- April 27—Summer session begins.
- June 24—Summer session closes.
- July 5—Summer classes begin in Chemistry, Mineralogy, Latin, Greek, etc.

TIME TABLE—FIRST SESSION.

<i>Time.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9—10	Biology and Physiology	Anatomy.	Biology and Physiology.	Anatomy.	Biology and Physiology.	
10—11	Physics.*	Physics.	Physics.	Practical Biology	Practical Biology.	
11—12	Junior Chemistry.	Junior Chemistry.	Junior Practical Chemistry.	Practical Biology.	Practical Biology.	
12—1						
2—5	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy	

*This class closes at Christmas holidays.

TIME TABLE—THIRD SESSION.

<i>Time.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9—10	Pathology.	Medical and Surgical Anatomy.	Pathology.	Medical and Surgical Anatomy.	Practical Pathology.	
10—11	Clinical Medicine.	Clinical Medicine.	Clinical Medicine.	Clinical Medicine.	Practical Pathology.	
11—12	Clinical Surgery.	Clinical Surgery.	Clinical Surgery.	Clinical Surgery.	Clinical Surgery.	
2—3	Surgery.	Surgery.	Surgery.	Surgery.	Surgery.	
3—4	Materia Medica and Therapeutics.	Junior Practice of Medicine.	Materia Medica and Therapeutics.	Junior Practice of Medicine.	Materia Medica and Therapeutics.	
4—5	Obstetrics and Gynæcology.	Obstetrics and Pædiatrics.	Obstetrics and Gynæcology.	Obstetrics and Gynæcology.	Obstetrics and Pædiatrics.	
5—6		Medical Jurisprudence.		Medical Jurisprudence.		

TIME TABLE—FOURTH SESSION.

<i>Time.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9—10	Medical and Surgical Anatomy.	Pathology and Bacteriology.	Medical and Surgical Anatomy.	Pathology and Bacteriology.	Medical and Surgical Anatomy.	
10—11	Clinical Medicine.	Clinical Medicine.	Clinical Medicine.	Clinical Medicine.	Clinical Medicine.	
11—12	Clinical Surgery.	Clinical Surgery and Gynæcology.	Clinical Surgery.	Clinical Surgery.	Clinical Surgery and Gynæcology.	
2—3	Surgery.	Surgery.	Surgery.	Surgery.	Surgery.	
3—4	Senior Practice of Medicine.		Senior Practice of Medicine.		Senior Practice of Medicine.	
4—5	Obstetrics and Gynæcology.	Obstetrics and Pædiatrics.	Obstetrics and Gynæcology.	Obstetrics and Pædiatrics.	Obstetrics and Pædiatrics.	

OFFICERS OF INSTRUCTION.

FACULTY OF MEDICINE.

FORTY-FIFTH SESSION, 1898-99.

Medicine.

- FIFE FOWLER, MD., L.R.C.S., EDIN.,
Professor of the Principles and Practice of Medicine. Dean of the Faculty.
JOHN HERALD, M.A., M.D.,
Professor of Clinical Medicine and Dermatology. Secretary of the Faculty.
J. W. CAMPBELL, B.A., M.D.,
Professor of Materia Medica, Therapeutics and Pharmacy. Librarian.

Surgery.

- HON. MICHAEL SULLIVAN, M.D., Professor of the Principles and Practice of Surgery.
D. E. MUNDELL, B.A., M.D., Assistant.
W. G. ANGLIN, M.D., M.R.C.S., ENG., Professor of Clinical Surgery.

Obstetrics and Gynaecology.

- R. W. GARRETT, M.A., M.D., Professor.
ISAAC WOOD, M.A., M.D., M.R.C.S., ENG., F.O.S., EDIN.,
Assistant Professor and Lecturer on Pædiatrics.

Medical Jurisprudence.

- W. T. CONNELL, M.D., M.R.C.S., ENG., L.R.C.P., LOND., Professor.

Sanitary Science.

- W. T. CONNELL, M.D., M.R.C.S., ENG., L.R.C.P., LOND., Professor.

Anatomy.

- EDWARD RYAN, B.A., M.D., Professor of Systematic Anatomy.
D. E. MUNDELL, B.A., M.D., Professor of Surgical Anatomy.
D. V. SULLIVAN, B.A., M.D., M.R.C.S., ENG., L.R.C.P., LOND., Demonstrator of Anatomy.

Pathology and Bacteriology.

- W. T. CONNELL, M.D., M.R.C.S., ENG., L.R.C.P., LOND., Professor.
W. S. FADDEN, M.D., C.M., Demonstrator.

Diseases of the Eye, Ear, Throat and Nose.

- J. C. CONNELL, M.A., M.D., Professor.

Mental Diseases.

- C. K. CLARKE, M.D., Medical Superintendent of Rockwood Hospital for Insane.

Biology, Physiology and Histology.

- JAMES FOWLER, M.A., F.R.S.C., Professor of Botany and Vegetable Histology.
A. P. KNIGHT, M.A., M.D., Professor of Animal Biology, Physiology and Histology.
WM. MOFFATT, M.A., M.D., } Demonstrators and Tutors.
E. C. WATSON, M.A., }

Chemistry and Applied Chemistry.

- W. L. GOODWIN, D.Sc., EDIN., Professor.
ISAAC WOOD, M.A., M.D., M.R.C.S., ENG., F.O.S., EDIN., Lecturer.
W. MOFFATT, M.A., M.D., Demonstrator.



MEDICAL BUILDING.

ANNOUNCEMENT.

The Forty-fifth Session will commence on Tuesday, Oct. 4th, 1898.

Certificates of attendance are recognized by the Royal Colleges of Physicians and Surgeons of London and Edinburgh, so that those possessing the Degree of M.D. from Queen's University, are entitled to all the privileges in Great Britain that are accorded to the students and graduates of other Colonial Colleges and Universities.

The General Medical Council of Great Britain and Ireland requires Candidates for License to have spent four Winter and four Summer Sessions in the Study of Medicine.

The medical department occupies very commodious premises immediately adjacent to Queen's College, the School of Mining and Agriculture, and the Hospitals. The Dissecting Room is large, well lighted and ventilated; the class rooms are commodious and comfortable. The Museum, and the Histological and the Pathological Laboratories, recently fitted up, are on the first floor, and are supplied with all the necessary modern apparatus for the practical teaching of those important branches of the Medical Curriculum—such as microscopes, microtomes, warming stage, staining fluids, mounting materials, and other appliances. Students are afforded superior advantages for examining morbid specimens and for the study of Histology and Bacteriology.

Instruction in every branch is given by lectures, recitations and clinical teaching, and is made as thorough and practical as possible. The faculty, having now at its command all the apparatus and appliances necessary for imparting a sound medical education in every branch of the curriculum, is in a position to offer to students all the advantages to be obtained anywhere else in the Dominion.

An abundant supply of dissecting material affords unrivalled opportunities for the study of Practical Anatomy, the foundation of all medical knowledge.

The Kingston General Hospital and Hotel Dieu, both within a few minutes' walk of the University buildings, are open to the students, and offer every facility for the prosecution of clinical studies. Students, if they so desire, can visit the Hospital for the Insane with Dr. CLARKE, the Superintendent, in addition to visiting the other hospitals.

The General Hospital has now accommodation for two hundred patients, its capacity having been largely increased by the completion of the Nickle wing. Another building, a bequest of the late Michael Doran, specially for Obstetric and Gynæcological cases, has been erected. A theatre for *post mortem* examinations has also been built. An operating amphitheatre, (the gift of the late DR. K. N. FENWICK), built on the most approved modern plans, affords students every facility for observing surgical operations.

Good board in respectable houses may be obtained at prices ranging from \$3.00 to \$4.00 per week. Lists of boarding and lodging houses can be obtained on application to the Registrar of the University.

CURRICULUM.

Candidates for the Degree of M.D., or the College Diploma, must have completed a period of four years' study, which must comprise four winter sessions and one summer session, and have passed the Matriculation Examination of Queen's College, as follows, or an equivalent:

English Language, Grammar and Composition.
Arithmetic with Vulgar and Decimal Fractions.
Algebra including simple equations.
Geometry, first two books of Euclid.

1898 { Virgil, *Æneid*, I.
 { Cæsar, Bell, Gall., II, III, IV.

1899 { Virgil, *Æneid*, I.
 { Cæsar, Bell, Gall. V, VI.

Translation from English into Latin prose of easy narrative passages, based on the prescribed prose texts.

Translation at sight, with the aid of vocabularies, of easy passages from Latin authors.

A paper on Latin Grammar.

Natural Philosophy, as in Stewart's Physics (or High School Physics), or one book in Greek, French or German.

NOTE.—All students must take Physics during the first year, unless they have passed previously the Primary, the Junior or the Senior Leaving Examination in Physics of the Education Department or an equivalent.

At any centre in which at least two students apply for Matriculation Examination an examination shall be held on July 18th.

Intending matriculants must notify the Secretary of the Medical Faculty not later than the 15th day of June, 1898. The usual Fee (\$5.00) must be sent with the application.

Graduates and Matriculants in Arts from any recognized University, and all who have passed the Matriculation Examination prescribed by the Medical Council of Ontario, are not required to pass the above Matriculation Examination.

The Matriculation Examination must have been passed before a student can be admitted to any of the Professional Examinations, although lectures may be attended before passing it.

Graduates in Arts may complete their Medical Curriculum in three years.

Every candidate must have given regular attendance on full courses of instruction in the following departments for the periods stated.

SUBJECTS OF STUDY AND FEES.

1st year:—Physics, Botany and Animal Biology, Anatomy, Physiology, Histology, Chemistry—Theoretical, Practical Anatomy.

2nd year:—Anatomy, Physiology, Materia Medica, Chemistry—Theoretical, Chemistry—Analytical and Practical, Practical Anatomy, Histology, Embryology.

3rd year:—Practice of Medicine, Clinical Medicine, Surgery, Clinical Surgery, Obstetrics, Gynaecology and Pædiatrics, Jurisprudence, Pathology, Medical and Surgical Anatomy, Materia Medica and Therapeutics, Practical Pharmacy.

4th year:—Practice of Medicine, Clinical Medicine, Surgery, Clinical Surgery, Obstetrics and Gynaecology, Medical and Surgical Anatomy, Pathology and Bacteriology.

Examinations in the spring on all the above subjects lead to the degree of M.D., (Doctor of Medicine).

The fee for the above course, including Registration, Examination, Laboratories, and the required amount of dissection material, is \$95 per session; if paid on or before October 31st, the fee is \$90. Special arrangements will be made as fees with those who do not take the full course of any year.

5th year:—Operative Surgery, Cadaver, Sectional Anatomy, Clinical Medicine (including Physical Diagnosis), Ophthalmology, Mental Diseases, Clinical Surgery, Diseases of Women, Diseases of Children, Practical Pathology and Bacteriology, with special attention to the examination of urine, sputum, bile, stomach contents, etc.

Examinations in the spring on the subjects of the 5th year's course leading to the degree of C.M.

The above course of study may have been pursued either wholly at Queen's or partly at Queen's and partly at some other recognized Medical School. In the latter case, at least one full session must have been spent at this University.

Certificates of attendance on lectures are accepted from incorporated Medical Schools in the British Dominions, and others recognized by British Universities and licensing Colleges. Other certificates of attendance on Lectures and Examinations may be accepted at the discretion of the Faculty.

Students who have passed the Primary Examination in Botany and the Senior Leaving Examination in Zoology of the education department will not be required to attend lectures on these subjects during the medical course.

All students must present certificates of having compounded medicine for a period of six months, in the office of a regularly qualified Medical Practitioner, and of having attended at least six cases of Midwifery. Students must also present evidence of having attended six post mortem examinations, as well as certificates showing a practical knowledge of the use of the microscope and ability to prepare specimens for the microscope.

Matriculated students or graduates in the Faculty of Arts who have attended during their course any course of lectures, or of practical instruction of the character or duration required by the Curriculum in Medicine, may obtain certified tickets of the course, on payment of the ordinary fee demanded from students in medicine, less the Laboratory fees paid during their Arts course.

EXAMINATION AND GRADUATION.

Every candidate intending to appear at the Final Examination must, on or before the 4th day of March in the year in which he proposes to graduate, present to the Secretary a declaration under his own hand that he is twenty-one years of age, or that he will be so before the day of graduation, accompanied by a certificate of good moral character, and a statement of his medical studies, with proper certificates.

EXAMINATIONS.

Examinations are required at the end of every session as follows:

At the end of the first session:—

Anatomy, Animal Biology and Physiology, Theoretical Chemistry, Physics.

At the end of the second session:—

Anatomy, Physiology, Histology, Materia Medica, Chemistry—Theoretical and Analytical.

At the end of the third session:—

Practice of Medicine, Surgery, Obstetrics and Gynæcology, Pathology, Jurisprudence, Materia Medica and Therapeutics and Pharmacy, Medical and Surgical Anatomy.

At the end of the fourth session:—

Practice of Medicine, Surgery, Obstetrics and Gynæcology, Medical and Surgical Anatomy, Pathology and Bacteriology.

On each senior paper the examiner will put pass and honour questions. Students desiring rank must answer both.

A candidate cannot obtain University rank for any of the foregoing examinations until he has matriculated.

Supplemental Examinations will be held in Convocation Hall, commencing Sept. 15th, at 10 a.m.

Students in Arts who have the Study of Medicine in view are advised to take during their Arts Course the Honour subjects in Animal Biology and thus complete part of the Practical Anatomy, and all of the Physiology and Histology of their medical course. An Arts Degree along these lines shortens by one year the course of study required by the Medical Council of Ontario.

EQUIVALENT EXAMINATIONS.

The following courses and examinations in Arts will be accepted in medicine.

Faculty of Arts.

1. Course and examination in Botany (Junior).
2. Attendance on the honour course and examination in first year Animal Biology.
3. Attendance on the honour course and examination in second year Animal Biology including Histology.
4. Course and examination in Junior Chemistry.
5. Course and examination in Senior Chemistry Nos. 1, 2 and 3 Arts Calendar.
6. Course and examination in 1st year honours, Nos. 1, 2 and 5.

Faculty of Medicine.

1. Course and examination in Botany.
2. Course and examination in first year Physiology.
3. Course and examination in second year Physiology and Histology.
4. Course of 1st year Chemistry (See Arts Calendar, p. 67.)
5. Course and examination in second year Chemistry.
6. Course and examination in Analytical Chemistry.

NOTE:—Equivalents 2 and 3 do not apply to Arts students who attended the honour class prior to 1894.

FEES.

Degree of M.D.	\$25 00
Degree of C.M.	5 00
Diploma of Royal College of Physicians and Surgeons.	20 00
Fellowship of Royal College of Physicians and Surgeons	50 00
Summer Session	25 00
Supplemental Examinations (each year's)	10 00
Hospital Ticket—Full Course.	20 00
Hospital Ticket—Winter Session	7 00
Hospital Ticket—Summer Session	5 00
Ad eundem gradum.	10 00

The Diploma of the Royal College of Physicians and Surgeons is open to Graduates in Medicine of Queen's University in good standing on payment of the fee.

All Class, Registration and Examination Fees are payable to Dr. Fowler, Dean of the Faculty of Medicine, and must be paid in advance.

Fees for the Degrees of M.D. and C.M. are payable to G. Y. Chown, B.A., the Registrar of the University.

PRIZES.

Besides University Prizes, Scholarships, and Honours open to Medical Students, the following are offered each year, viz:—

1. At the end of the second session :—

Two demonstrators and four prosectors in Anatomy will be chosen by the Professor of Anatomy and the Lecturer on Practical Anatomy.

A prize of \$25.00 to be awarded to the student making the highest number of marks on this year's examination in Anatomy, Physiology, Materia Medica.

2. At the end of the fourth session:—

Two University medals to be awarded to the two students making the highest percentages on the pass and honour examinations of the year.

Two House Surgeoncies at the Kingston General Hospital, of twelve months each, are to be awarded to the two students making the highest percentages on the examination of the year. Candidates for these appointments must have passed all previous examinations. These appointments must be approved by the Board of Governors of the Kingston General Hospital.

STUDENTS' APPOINTMENTS.

Dressers in Eye and Ear Department.

Clinical Clerks—Medical, Surgical and Gynæcological.

Students will be appointed to take charge of and report upon the cases in the Medical, Surgical and Gynæcological wards of the Hospital.

Pathological clerks will be appointed in turn during the session to prepare microscopic specimens and to assist at and report upon post mortem examinations.

Prosectors to the chair of Anatomy, (4) to each of whom a Diploma of Merit will be awarded.

Prosectors to the chair of Medical and Surgical Anatomy, (4) to each of whom a Diploma of Merit will be awarded.

GENERAL ANNOUNCEMENTS.

The University Examinations in Medicine will begin on March 24th, 1899.

The examinations of the Ontario Medical Council will be held in Kingston in May, 1899.

All who desire to practice medicine in Ontario must pass the Matriculation and other examinations of the Medical Council.

All announcements and regulations contained in this Calendar apply to the current session only.

All applications with reference to Medical Studies must be made to the Secretary of the Faculty.

COURSE OF INSTRUCTION.

1. THEORY AND PRACTICE OF MEDICINE.—(PROF. FOWLER).

This class consists of a Senior and Junior Course of fifty lectures each, embracing the following divisions, viz.: The General Principles of Medicine, the Nature and Cause of Disease, Symptoms, Intercurrent Affections during the course of a disease, Diagnosis, Means of Prevention and General and special treatment; together with the Classification of Diseases, the Morbid Changes of the different organs and structures of the body affected, and the Hygienic management of patients.

These lectures are illustrated by plates, morbid specimens and models of diseased parts.

2. PRINCIPLES AND PRACTICE OF SURGERY.—(PROF. SULLIVAN).

This course consists of 100 lectures, part of which will be given in the class room of the college and part in the Hotel Dieu Hospital. In the latter institution patients illustrating the lectures will be exhibited to the class and operations performed in the presence of the students.

These Lectures, besides the Principles and Practice of Surgery, will include a course of Surgical Anatomy and Surgical Pathology, illustrated by plates, models and specimens, explaining the most recent theories. The use of instruments and surgical apparatus and appliances is taught; the chief operations are performed on a cadaver, and advantage is taken to give a concise and practical course in special surgery, introducing the latest and most improved operations and modes of treatment with the use of such instruments as are employed in special surgery.

3. OBSTETRICS AND DISEASES OF WOMEN.—(PROF. R. W. GARRETT).

This course consists of 100 Lectures, embracing the Principles and Practice of Obstetrics and a full course on Gynæcology, illustrated by drawings, models, the use of artificial pelvis, etc.

The class will be admitted in sections to see the operations in the Doran Building.

Ample opportunities will be afforded to the students for studying this important branch practically, as they will be arranged in classes to attend the Obstetric practice of the Hospital.

Full instructions will be given for the after-management of Obstetric Cases; and the accidents and diseases of that critical period will be properly discussed, and also the diseases of infancy and early childhood.

4. MATERIA MEDICA, THERAPEUTICS AND PHARMACY —(PROF. CAMPELL).

In this course, which consists of 100 Lectures, all the important drugs used in medical, surgical and obstetrical practice will be fully described and their properties, preparations and doses given. Their therapeutic action, and the conditions in which a particular medicine of a certain class is more suitable than others of the same class, will receive special attention. Instruction in Prescription Writing forms a characteristic feature of the Materia Medica course.

This course will be illustrated by plates, and specimens of the various drugs and chemicals used in medicine.

5. ANATOMY.—(PROF. RYAN).

Anatomy is taught in the most practical manner possible.

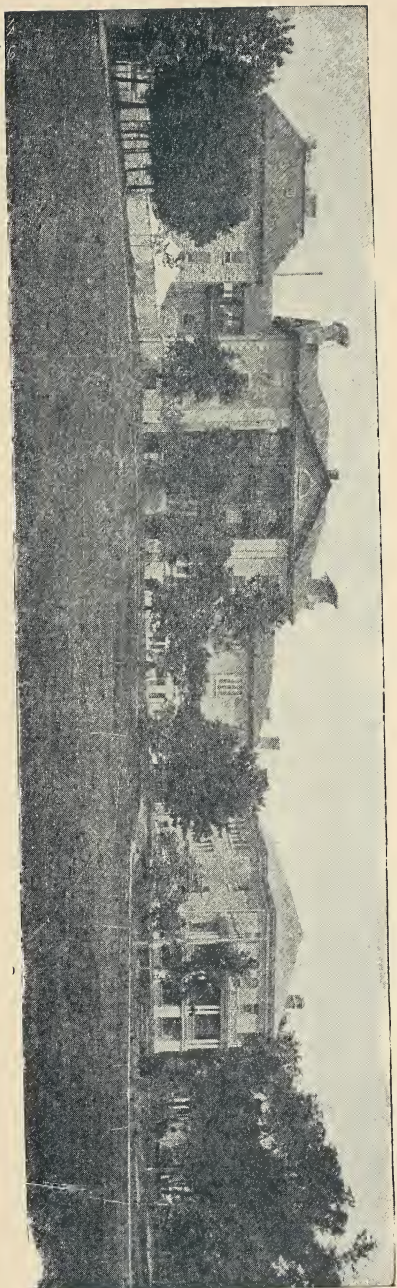
Nickle Wing for Contagious
Cases.

Medical and Surgical
Wards.

Watkins Wing for Private
Treatment.

Doran Wing for Treatment
of Women.

KINGSTON GENERAL HOSPITAL.



Five Lectures a week are given in the Anatomy class-room, and are fully illustrated by recent dissections on the cadaver, and also by plates, drawings and preparations.

Four of the best dissectors among the third year students are chosen each session as *prosectors*, and these, under the direction of the Professor, make careful dissections of the parts to be brought before the class. Thus students not only hear a description of the tissues of the body, but see them properly dissected and lying in their natural relations to each other. Every facility for studying Anatomy is afforded the students, and prizes are given at the end of the session for the best examinations passed.

6. ANIMAL BIOLOGY, INCLUDING PHYSIOLOGY AND HISTOLOGY—
(PROF. KNIGHT).

This includes an elementary course of lectures and demonstrations of Animal Biology and Physiology for first year students, and a course of lectures on physiology and histology for second year students.

The electric lantern is used extensively in illustrating topics, biology, physiology and histology.

Students are instructed in the use of various physiological instruments, such as the sphygmograph, spirometer, manometer, etc., and everything is done, as far as time will permit, to make them practically acquainted with modern physiology, its methods, its deductions, and the basis upon which the latter rest.

The minute anatomy of the various tissues and organs will be illustrated by lantern slides, diagrams, and a large number of sections of both fresh and prepared tissues which will be furnished to each student for examination under the microscope. These sections must be carefully studied, drawn and described in a blank book specially provided for the purpose; and this sessional work, if satisfactory, will be accepted in lieu of a practical examination in histology at the end of the season.

7. THEORETICAL CHEMISTRY.—(PROF. GOODWIN AND DR. WOOD).

This course comprises Chemical Physics, Chemical Philosophy, Inorganic and Organic Chemistry.

The Lectures are fully illustrated by experiments.

8. PRACTICAL CHEMISTRY. (DR. WOOD).

(a) Qualitative analysis, including the testing of simple solutions and powders by wet and dry methods, and testing for the commoner poisons.

(b) Practical course in physiological chemistry, including urinalysis, the examination of proteids, carbo-hydrates, fats, digestive fluids, bile, blood and milk.

9. MEDICAL JURISPRUDENCE.—(PROF. W. T. CONNELL).

This course includes documentary and oral evidence, identification, real and apparent death, autopsy, the taking down of evidence, the appearance of wounds and other external injuries before and after death, effects of suffocation, drowning, the detection of blood stains, seminal fluid, etc.; the evidence of rape, criminal abortion, concealment of pregnancy and infanticide, insanity, feigned diseases, impotence, sterility, legitimacy, survivorship, life assurance, malpractice, and Medical Toxicology. The lectures are illustrated with plates and specimens when necessary.

10. PRACTICAL ANATOMY.—(DR. D. V. SULLIVAN).

The Dissecting Room will be open from 8 a.m. to 6 p.m. for the use of the students; and instructions will be given every day in dissecting, and in the details of Practical Anatomy, by the Demonstrator or his assistants. Students are furnished with material for dissection, of which there is always an abundant supply in the institution.

11. CLINICAL MEDICINE.—(PROF. HERALD).

1. Clinical study of diseases, with reports of cases.
2. The instruments employed in the diagnosis of disease.
3. Physical diagnosis of medical diseases of the heart and lungs.
4. The diagnostic import of the chemical and microscopical examination of the blood, expectoration, vomited matters, gastric contents, urine and serous effusions.

12. CLINICAL SURGERY.—(PROF. ANGLIN).

These Lectures are given upon the various Surgical cases in the wards of the General Hospital. They are delivered at the bedside or in the Theatre of the Hospital. When the Lectures are delivered in the Theatre the patients are brought in and their

diseases exhibited to the class; the symptoms, diagnosis, treatment, course and probable termination of them are pointed out, and all the circumstances attending their cases thoroughly impressed upon the minds of the students. When requiring it the Lectures are elucidated by plates, surgical apparatus, morbid specimens, models, etc. All operations are performed in the presence of the class.

Special instruction will be given in the application of splints, bandages and antiseptic appliances.

13. SANITARY SCIENCE—(PROF. W. T. CONNELL).

The Lectures in this subject are held during the summer session only.

Lectures will cover Food, Water, Air and Ventilation, Sewage Disposal, Dwellings, Hospitals, Climate and Soil in their relations to the Public Health. The nature, methods of spread and means of prevention of the Infective Diseases will also be considered, including Isolation, Disinfection, Quarantine, and Disposal of the Dead.

14. BOTANY—(PROF. FOWLER).

During the summer session only. The Lectures will be illustrated by drawings, microscope sections, dried specimens and living plants.

15. PATHOLOGY AND BACTERIOLOGY—(PROF. W. T. CONNELL).

The courses and teaching in these subjects comprise:—

1. A series of Lectures, two per week during the winter Session, on General Pathology and Morbid Anatomy for students of the third year. These lectures will be illustrated by plates, diagrams and morbid specimens.

2. A weekly demonstration in Morbid Histology during the winter Session for third year students. From four to six sections are prepared and demonstrated each week, so that a representative series of specimens of diseased tissues are thus acquired by students.

3. A series of Lectures and Demonstrations on Morbid Anatomy for students of the fourth year. Two hours per week will be spent during three months of the winter Session.

4. Each student during the third year will be required to spend from three to four weeks in the Laboratory in assisting to prepare, stain and mount microscopic specimens of morbid tissues for class use.

5. Students will be taken in rotation to assist in making post mortem sections, and in making report of such examinations. Students must attend at least six autopsies. Autopsies are held at the mortuaries of the General Hospital and Rockwood Hospital

6. A series of Lectures, followed by practical instruction and work in Bacteriology, will be held during three months of the winter Session. This course is required to complete the work in Pathology and Bacteriology for the fourth year. Each student will have practical instruction in culture methods, examination of pure cultures and examination bacteriologically of secretions and excretions of the body, with strict reference to the bearing of such on Practical Medicine.

16. MEDICAL AND SURGICAL ANATOMY—(PROF. MUNDELL).

3rd Year.—Ligature of Arteries, Anatomical Relations to Fractures and Displacement, &c.

4th Year.—Same as third year, in addition to Topographical Anatomy and Operative Surgery.

17. PRACTICAL PHARMACY—(PROF. CAMPBELL).

This course consists of 25 Lectures, illustrated by Pharmaceutical Preparations; the dispensing of Prescriptions, illustrating the Chemical and Physical incompatibilities; and the testing of Drugs especially so as to distinguish those which in appearance closely resemble each other.

18. DISEASES OF THE EYE, EAR, THROAT AND NOSE—(DR. J. C. CONNELL).

A complete course is given during the summer session, at the close of which a special examination is held and a certificate granted to those who pass. The course includes private instruction in the use of the Ophthalmoscope and Laryngoscope, students being taken in rotation to Dr. Connell's office. During the winter session operations and clinics are given in connection with Clinical Surgery.

BOOKS RECOMMENDED TO STUDENTS.

ANATOMY—Gray, \$6.50; Heath, \$4.50; Quain, \$10.80; Holden.

INSTITUTES OF MEDICINE—Foster; Macmillan's one vol. ed., 1896; McKendrick's; Stewart's.

MATERIA MEDICA, PHARMACY AND THERAPEUTICS—Bartholow's *Materia Medica and Therapeutics*, Hare's *Practical Therapeutics*, Mitchell Bruce's *Materia Medica and Therapeutics*, Potter's *Materia Medica, Pharmacy and Therapeutics*.

PRINCIPLES AND PRACTICE OF SURGERY—Walsham, Bryant, Erichsen, Moulin, Treve's System; for reference, any of the larger works. Minor Surgery. Bandaging. Heath, Wharton.

THEORY AND PRACTICE OF MEDICINE—Robert's, \$5; or Osler; Duanes' *Students' Medical Dictionary*.

OBSTETRICS—Playfair; Parvin; Davis; American Text Book of Obstetrics.

GYNAECOLOGY—Garrigue; Byford; Keating and Coc; Thomas and Munde; American Text Book of Gynæcology.

DISEASES OF CHILDREN—Smith.

PATHOLOGY—Green, *Pathology and Morbid Anatomy*; Coats' *Pathology*; Bowlby's *Surgical Pathology*.

PRACTICAL PATHOLOGY AND TECHNIQUE—Mallory & Wright's *Pathological Technique*; Woodhead's *Practical Pathology*.

CHEMISTRY—Goodwin's *Text Book of Chemistry*, Holland's *The Urine*, &c.

BOTANY—Gray's *Structural and Systematic Botany*, vols. 1 and 2.

MEDICAL JURISPRUDENCE—Reese's *Medical Jurisprudence*, Taylor's *Medical Jurisprudence* (11th Am. ed.); for references, McLean, Hamilton and Tidy.

SANITARY SCIENCE—Wilson's *Hand Book*, Notter & Firth's *Theory and Practice of Hygiene*, Rohe's *Text Book of Hygiene*.

HISTOLOGY—Sterling or Schafer.

ELEMENTARY ANIMAL BIOLOGY—Dr. Campbell.

PRACTICAL ANATOMY—Heath, \$4.50; or Ellis.

ELEMENTARY PHYSIOLOGY—Foster and Shore.

DISEASES OF THE EYE—Swanzy, Nettleship, Noyes, Berry, Fuchs, Rossa, Hartridge.

DISEASES OF THE EAR—Pritchard, Politzer, Deuch, Buck, Pomeroy, Burnett.

DISEASES OF THE THROAT AND NOSE—Burnett's System, Bosworth, MacKenzie, Macdonald, Lennox Browne, Sajous.

BACTERIOLOGY—Abbot's Hand Book of Bacteriology, Sternberg's Bacteriology, Klein's Micro-Organisms and Disease.

SURGICAL ANATOMY—Treves, Bellamy, Fuller's Architecture of the Brain.

MUSEUM.

The Museum contains numerous valuable Pathological Specimens, collected both from Hospital and private practice. Anatomy is illustrated by models of dissections of various parts of body, especially the Brain, Heart and Lungs.

Contributions of Morbid Specimens will be gladly received from Practitioners and duly acknowledged in the next Calendar.

LIBRARY.

The Library of the Medical Department to which students have access, is furnished with the standard Text-Books and Works of Reference. The Reading room is always provided with the leading Medical and Surgical publications and periodicals of the day.

SUMMER SESSION.

The Summer Session will commence on April 27, 1899. Students are advised to take their Summer Session at the end of their third Winter Session.

Attendance for the Summer Session must be certified by the Lecturers at the close of the Session.

The fee for the Summer Session is \$25. Tickets may be obtained from the Dean of the Faculty.

Examinations will be held at the close of the summer session in the subjects of Botany, Sanitary Science, Eye, Ear, Nose and Throat.

TIME TABLE—Summer Session, 1898.

<i>Subject.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>	<i>Where Held.</i>
Operative Surgery		8.00		8.00		8.00	Medical College.
Sanitary Science.....	8.00		8.00		8.00		Medical College.
Clinical Medicine	10.00		10.00		10.00		General Hospital.
Clinical and Minor Surgery and Bandaging	11.00		11.00		11.00		General Hospital.
Clinical Obstetrics and Gynæcology		11.00		11.00			General Hospital.
Mental Diseases		2.00		2.00		2.00	Rockwood Hos'l.
Hotel Dieu Clinics	3.00		3.00		3.00		Hotel Dieu.

CLASSES TAKEN DURING SUMMER, BUT NOT PART OF SUMMER SESSION.

Botany	9.00	9.00	9.00	9.00	9.00		Arts Building.
Diseases of Eye, Ear, Throat.....	9.00	9.00	9.00	9.00	9.00		General Hospital.
Bacteriology	4.00		4.00		4.00		Medical College.

College of Physicians and Surgeons of Ontario.

SECTION 1.

MATRICULATION.

1. Every one desirous of being registered as a Matriculated Medical Student in the Register of this College, except as hereinafter provided, must on and after the first day of November, present to the Registrar of this College the Official Certificate of having passed the Department Art Pass Matriculation Examination, and in addition Physics and Chemistry, whereupon he or she shall be entitled to be so registered upon the payment of twenty dollars and giving proof of identity.

2. Graduates in Arts, in any University in Her Majesty's Dominions, are not required to pass this examination, but may register their names with the Registrar of the College upon giving satisfactory evidence of their identity and certificate of qualifications, and upon paying the fee of twenty dollars.

3. Every Medical Student after Matriculating shall be registered in the manner prescribed by the Council, and this shall be held to be the preliminary to his medical studies, which will not be considered to begin until after the date of such registration.

4. Matriculants in Arts in any Canadian University prior to November, 1895, are entitled to be registered; also any student now at the end of second year, whose matriculation has not been completed, can take the Primary of the Council conditionally.

SECTION 2.

MEDICAL CURRICULUM.

1. On and after the first day of July, 1892, every student must spend a period of five years in actual professional studies, except as hereinafter provided; and the prescribed period of studies shall include four Winter Sessions of six months each and one Summer Session of ten weeks. The fifth year shall be devoted to clinical work, six months of which may be spent with a Registered Practitioner in Ontario, and six months at one or more



DORAN BUILDING (SIDE VIEW).

Public Hospitals, Dispensaries or Laboratories devoted to Physiological or Pathological research, Canadian, British or foreign, attended AFTER being registered as a Medical Student in the Register of the College of Physicians and Surgeons of Ontario.—“But any change in the curriculum of studies fixed by the Council shall not come into effect until one year after such change is made.”

Homœopathic Students who attend four sessions at any medical college where nine months' sessions are taught to be held equal to four Winter Sessions and one Summer Session of this College. This shall not in any way interfere with the practical and clinical work as prescribed by the Medical Council of Ontario for the fifth year.

2. Graduates in Arts or Science of any College or University recognized by the Council who shall have spent a year in the study of Physics, Chemistry and Biology, and have passed an examination in these subjects for degrees in Arts and Science, shall be held to have completed the first year of the five years of Medical study, and will only be required to pass three years after graduating in attendance upon Medical studies, and having spent one year thereafter in practical clinical work before being admitted to their Final Examination.

No tickets for Lectures will henceforth be accepted by the Council unless it is endorsed thereon that the pupil had attended at least 75 per cent. of each course of said Lectures, as shown by the teacher's own roll.

3. Application for every professional examination must be made to the Registrar of the College of Physicians and Surgeons of Ontario two weeks prior to the examination. No application will be received unless accompanied by the necessary tickets and certificates, and by the Treasurer's receipt showing that fees have been paid.

4. Each “Six Months' Course” of not less than fifty lectures, and each “Three Months' Course” of not less than twenty-five lectures.

5. Every student must attend the undermentioned courses of lectures in a University, College or School of Medicine approved of by the Council, viz.:—

Two courses of not less than six months each (in the different years) upon

ANATOMY.

PRACTICAL ANATOMY.

PHYSIOLOGY, (including Histology).

THEORETICAL CHEMISTRY.

MATERIA MEDICA AND THERAPEUTICS.

PRINCIPLES AND PRACTICE OF MEDICINE.

“ “ “ “ SURGERY.

MIDWIFERY AND DISEASES OF WOMEN.

CLINICAL MEDICINE.

“ SURGERY.

One course of not less than six months each, upon

MEDICAL JURISPRUDENCE.

MEDICAL, SURGICAL AND TOPOGRAPHICAL ANATOMY.

Two courses of not less than three months each (in the different years), upon

DISEASES OF CHILDREN.

PRACTICAL CHEMISTRY (including Toxicology).

One course of not less than three months each, upon

SANITARY SCIENCE.

PRACTICAL PHARMACY.

One course of ten Lectures upon

MENTAL DISEASES.

One course of fifty Demonstrations upon

PHYSIOLOGICAL HISTOLOGY.

6. Every candidate will be required to prove that he has carefully dissected the adult human body.

7. Also must have attended the practice of a General Hospital for twenty-four months during the first four years of study.

8. Also must have attended six cases of Midwifery.

9. Also must, before being registered as a member of the College of Physicians and Surgeons of Ontario, have passed all the Examinations hereinafter prescribed, and attained the full age of twenty-one years.

10. Graduates in Medicine from recognized Colleges outside the Dominion of Canada, who desire to qualify themselves for registration, must pass the Matriculation required by the Council; and must attend one or more full Winter Courses of Lectures in

one of the Ontario Medical Schools, and must complete fully the Practical and Clinical Curriculum required by the Council after the fourth year, and shall pass before the Examiners appointed by the Council all the Examinations hereinafter prescribed, so as to complete fully the Curriculum.

11. That British Registered Medical Practitioners on paying all fees and passing the Intermediate and Final Examinations be registered, provided they have been domiciled in Britain for five years after becoming so registered.

SECTION 3. EXAMINATIONS.

1. The Professional Examinations are divided into three parts : a "Primary," "Intermediate," and "Final."

2. The Primary Examination shall be undergone after the second Winter Session, and the Intermediate after the third or fourth Winter Session, the Final after the fifth year.

3. The following branches shall be embraced in the Primary Examinations :

- a. ANATOMY.
- b. PHYSIOLOGY AND HISTOLOGY.
- c. CHEMISTRY (Theoretical and Practical.)
- d. MATERIA MEDICA AND PHARMACY.

4. Every Candidate for the Primary Examination will be required to present with his Lecture Tickets a Certificate of having undergone and passed an Examination at the School he has attended at the close of his first Winter Session on Primary Branches. Also a Certificate of ability to make and mount Microscopic Specimens.

5. Each Candidate for Final Examination must present a Certificate of attendance at six post mortem Examinations, and a Certificate of ability to draw up a report of a Post Mortem Examination ; and a Certificate of having reported satisfactorily Six Cases of Clinical Medicine, and Six Cases of Clinical Surgery, and of having passed his Intermediate Examination. The Certificates to be signed by the Teachers referred to upon these subjects, or the practitioner holding Post Mortem.

Also, all Candidates shall (except Arts Graduates) present a Certificate of having passed at the close of their third session in the College or School they may have attended, an examination in such parts of Medicine, Surgery, and Midwifery as may be thought advisable by the Faculties of the respective Colleges or Schools. This examination is not in any way to interfere with any of the examinations of the Council.

6. The following branches shall be embraced in the Intermediate Examination :

- a.* MEDICAL, SURGICAL AND TOPOGRAPHICAL ANATOMY.
- b.* PRINCIPLES AND PRACTICE OF MEDICINE.
- c.* GENERAL PATHOLOGY, THERAPEUTICS AND BACTERIOLOGY.
- d.* SURGERY, other than Operative.
- e.* SURGERY, Operative.
- f.* MIDWIFERY, other than Operative.
- g.* MIDWIFERY, Operative.
- h.* MEDICAL JURISPRUDENCE, INCLUDING TOXICOLOGY AND MENTAL DISEASES
- i.* SANITARY SCIENCE.
- j.* DISEASES OF CHILDREN.
- k.* DISEASES OF WOMEN.
- l.* THERAPEUTICS.

7. The Primary and intermediate Examinations shall be "Written" and "Oral." The Final "Oral" and "Clinical."

8. The following branches will be embraced in the Final Examination :

- a.* CLINICAL MEDICINE.
- b.* CLINICAL SURGERY (including Vaccination).
- c.* DISEASES OF WOMEN.
- d.* DISEASES OF CHILDREN, MEDICAL AND SURGICAL.

9. Any candidate who makes 60 per cent. in three or more branches, but fails in the others, shall receive credit for the subjects so passed, and be compelled to pass in the other branches only at a subsequent Examination.

10. Candidates who intend to be examined by the Homœopathic Examiner in special subjects shall signify their intention to the Registrar at least two weeks previous to the commencement of the Examination, in order that he may provide means of preventing their identification with the other Students, or by the Examiners.

11. In the event of any candidate signifying his intention to the Registrar to be examined and registered as Homœopathic Practitioner, due notice of such must be submitted to the Registrar, so that the examinations may be conducted by the parties appointed for that purpose ; prior to the acceptance of such notice from the candidate, the usual fees must be paid. In the event of any candidate presenting himself for such Examination, due notice must be given by the Registrar to the special Examiner.

12. The next Professional Examinations will be held in Toronto and Kingston in May, 1899.

SECTION 4.

FEEES.

1. Fees after 1st of July, 1898 :

a.	Registration of Matriculation	\$20 00
b.	Primary Examination	30 00
c.	Final Examination including Registration.....	50 00

This is not to affect any Student who is registered as a Matriculant prior to 1st July, 1898.

2. All fees must be paid in lawful money of Canada, to the Treasurer of the College.

3. No candidate will be admitted to any examination until the fee for such examination is paid in full.

4. Candidates who have failed in any Professional Examination shall pay a fee of twenty dollars for each subsequent examination.

EXAMINATION PAPERS.

JUNIOR ANATOMY.

Examiner : Dr. Edward Ryan.

1. Describe the upper end of the Femur.
2. Name the ligaments of the Hip and Elbow joints and give their attachments.
3. Give the origin and insertion of the Pectoralis Major, Pronator Radii Teres, Gluteus Maximus, Semi-Membranosus and Tibialis Posticus.
4. Describe a Cervical Vertebra.

ANIMAL BIOLOGY.

Examiner : Dr. Knight.

1. Define *metazoa*, *epiblast*, *ectoderm*, *tissue*, *epithelium*, *fasciculus*, *multipolar cell*, *conjugation*, *Gregarinae*,
2. Describe the anatomy of *Hydra*.
3. Sketch the life histories of *Oxyuris*, *Vermicularis*, *Filaria Sanguinis Hominis*, and *Trichina Spiralis*.

JUNIOR PHYSIOLOGY.

1. Describe what takes place when
 - i. a strong solution of a neutral salt is added to a freshly shed blood and the mixture is allowed to stand,
 - ii. crystals of magnesium sulphate are added to blood serum,
 - iii. defibrinated blood is allowed (*a*) to stand for a day or two, and (*b*) is then shaken up with air.
2. What important physiological facts can be learned from experiments with a muscle nerve preparation.
3. Discuss the cause and regulation of the heart beat.
4. Explain how the respective volumes of tidal, stationary, complemental, and residual air have been determined.

5. Explain and illustrate what is meant by (a) simple reaction time, and (b) discrimination time.
6. How are sound vibrations transmitted in the ear.
7. State briefly the functions of the cranial nerves.

JUNIOR CHEMISTRY.

Examiner: Dr. Goodwin.

1. (a) How is nitric acid made? (b) What are its chief chemical properties? (c) Describe experiments illustrating each property.
2. What weights of ammonia, of carbon monoxide, of methane, of phosphorus, and of mercury, are equal in volume in the gaseous state to two grammes of hydrogen, the temperature and the pressure being the same for all?
3. (a) What is the normal proportion of carbon dioxide in the atmosphere? (b) How can carbon dioxide be detected in a mixture of gases? (c) Write the formulas for the two carbonates of sodium.
4. (a) What is meant by isomerism? (b) Give examples of isomeric substances. (c) How is isomerism explained?
5. (a) How is chlorine made? (b) Write equations for its action on dilute solution of caustic potash, on slaked lime, and on dry mercuric oxide.
6. (a) How would you prepare a specimen of hydrogen gas and test its properties? (b) Make a sketch of the apparatus.
7. Write equations for the following chemical reactions and give the names of the substances:
 - (a) Dilute sulphuric acid on ferrous sulphide.
 - (b) Sulphurous acid on bromine water.
 - (c) Bromine on dilute solution of caustic potash.
 - (d) Dilute nitric acid on copper.
 - (e) Hydrochloric acid on ammonia.

JUNIOR MATERIA MEDICA.

Examiner: Dr. James Campbell.

1. Distinguish between Physiological and Therapeutical action, using Gentian as an example.

2. How would you prepare Tincture of Nux Vomica, Infusion of Cinchona, and Fluid Extract of Taraxacum ?

3. Give the action of Calumba upon the digestive system and upon the brain.

4. Enumerate the different forms in which drugs may be used medicinally.

5. Write a prescription containing Calumba, Nux Vomica, and Rhubarb.

6. Classify purgatives, giving examples.

7. Give doses of Aloes, Strychnine, Quinine, Oil of Cinnamon, and Tincture of Cardamon Compound.

8. Chloroform. Give methods of administration, precautions to be observed in administration, and the action on Heart, Respiration and Eye.

SENIOR ANATOMY.

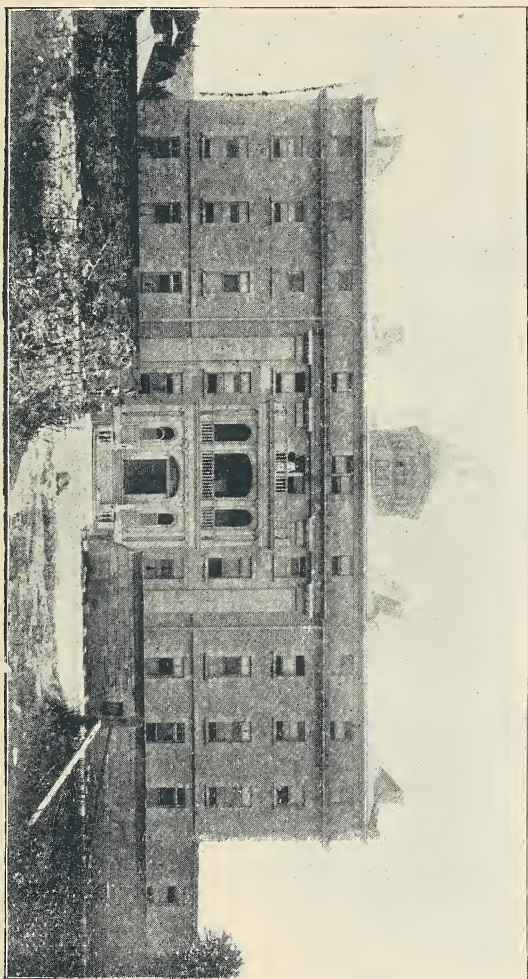
Examiner: Dr. E. Ryan.

1. Describe the Pubic portion of Os Innominatum.
2. Trace the course and give the distribution of the Phrenic nerve; the Internal Plantar artery.
3. Describe the Pancreas and give its relations.
4. Give the boundaries, floor and contents of the inferior Carotid triangle.

SENIOR PHYSIOLOGY.

Examiner: Dr. Knight.

1. Enumerate the contractile tissues; tell where they are found in the body and indicate their functional importance.
2. Give examples of vaso-motor nerves, and outline the course of the dilator and of the constrictor fibres from the central nervous system. How has their course been determined?
3. Specify the effects of the action of the respiratory system on the vascular system.
4. The spinal cord is cut just below the bulb. What will be the immediate effect on *movement, secretion, blood-pressure, sensation, temperature?*



HOTEL DIEU HOSPITAL.

5. Indicate the causes of imperfections in the nervous mechanism of vision, and in that of speech.
6. Sketch the imperfections of the dioptric apparatus.

HONOURS.

1. Discuss the development and path of gustatory impulses.
2. Describe the development of the eye and of the ear in the embryo of the chick.

HISTOLOGY.

Examiner : Dr. Knight.

- 5 1. Describe mucous tissue. Give situations in which it is found.
- 9 2. Give differences between (a) striated, (b) non-striated, and (c) cardiac muscle.
- 10 3. Describe the blood vascular system of the kidney.
- 4 4. How would you distinguish
4 (a) a section of placenta from one of tonsil ?
15 (b) a section of lymphatic gland from one of spleen ?
- 5 5. Draw, describe and identify the three sections submitted.

SENIOR MATERIA MEDICA, THERAPEUTICS AND PHARMACY.

Examiner : Dr. Campbell.

1. Give the preparation, strength and dose of Tincture of Camphor Compound, Liquor Arsenicalis, Strychnine Sulphate, and Tincture Aconite.
2. Contrast the physiological action of Ether with Chloroform, and Alcohol with Strychnine.
3. Give indications for the administration of Aconite, Atropine and Chloral Hydrate.
4. Classify agents acting upon the Heart, giving examples.
5. Distinguish between antagonist and incompatible. Illustrate your answer with agents acting upon digestive system.
6. Give doses for: Aloin, Caffeine Citrate, Hydrocyanic Acid, Amyl Nitrite and Trional.

7. Write a prescription for anaemia, explaining the action of each ingredient used.

8. Criticise the following prescription:

R̄ Potassium Iodid	drachm	1½.
Sweet Spirits of Nitre	"	1½.
Strychnine Sulphat	gr.	1.
Acid Nitric dil	drachm	2.
Syrup of Orange ad	oz.	4.

Sig:—Teaspoonful every four hours.

SENIOR CHEMISTRY.

1. Write the structural formulae of a primary, a secondary, and a tertiary alcohol, and state the successive oxidation products of each.

2. Give a classification of the sugars with examples.

3. How can Putrescin be prepared from Glycol? Write the structural formulae for the various reactions.

4. How can ethyl alcohol be prepared from

(a) Cane Sugar.

(b) Ethylene.

(c) Methyl Chloride.

5. Write the structural formula for one of the fats. How are soaps prepared from them and how may we suppose soaps to act in removing dirt?

6. Outline two methods of manufacturing caustic soda.

7. (a) How is aluminium manufactured? (b) Upon what properties does its usefulness in surgery depend? (c) Write the formula for potassium alum.

8. (a) How would you make a solution of nitrate of silver from the metal? (b) How would you convert it into silver chloride?

9. Describe carefully the properties, (a) physical and (b) chemical, of zinc vitriol.

JUNIOR PRACTICE OF MEDICINE.

Examiner: Dr. John Herald.

1. Define Fever, Fastigium, Crisis, Lysis.
2. Describe fully how you would use the clinical thermometer. Illustrate its use as a means of differential diagnosis?
3. Diagnose by physical signs between Catarrhal and Croupous Pneumonia.
4. What are the causes of Gangrene of the Lung? How would you make your diagnosis?
5. What do you understand by the terms Quotidian and Tertian as applied to an intermittent Fever? What is the cause of Malarial Fevers?
6. Describe how you would vaccinate a patient. Describe the course of the eruption of Small Pox in a patient previously vaccinated.

JUNIOR SURGERY.

Examiner: Hon. Dr. Sullivan.

1. What is the most common form of dislocation of the shoulder joint? How would you reduce it? 25
2. Describe healing by the second intention. 25
3. Treat a case of free hæmorrhage from a wound of superficial Palmar arch. 25
4. State the unequivocal signs of fracture. 25

JUNIOR OBSTETRICS AND INFANTILE DISEASES.

Examiner: Dr. Isaac Wood.

N.B.—Five questions will count a full paper.

1. Describe the Ovary and give its relations.
2. What are the most reliable signs of Pregnancy at the end of the fourth month.
3. Describe the mechanism and management of labor in a case of Face presentation—left mento-posterior.
4. Describe the foetal circulation and the changes which occur in it after birth.

5. State the incubation period and give the differential diagnosis of Scarlatina and Measles.

6. Give the morbid anatomy, clinical course and treatment of Tubercular Meningitis.

PATHOLOGY.

Examiner: W. T. Connell.

N.B.—Five questions constitute a full paper, of which first three must form part.

1. Define Inflammation. What are its causes? What relationship exists between the causes and terminations of Inflammation? 20

2. What are the differential characters of Innocent and Malignant Tumors?

Differentiate between the forms of Malignant Tumors. 20

3. Trace through their various stages the lesions which may result by the action of Tubercle Bacilli on the tissues. .. 20

4. Describe the morbid anatomy and histology of the usual form of Cirrhosis of the Liver.

What lessons do we find outside the Liver in this affection and why? 20

5. Non-infective (Simple) Endocarditis. What are its causes, sites, lesions and possible terminations and results? 20

6. Lobar or Croupous Pneumonia. Describe the gross and microscopic changes which take place in a lobe of lung so involved, where termination is in resolution. 20

HONOURS.

7. Stricture of the Urethra. How is it produced? What effects may we have as result, on Urethra and Urethral region? on Bladder? on Kidney? 40

8. Describe the modes of invasion of a joint in Tubercular Arthritis.

What joints are most frequently involved? .. 30

9. Describe fully the process of healing after the evacuation of an Acute Abscess. 30

JUNIOR MEDICAL AND SURGICAL ANATOMY.

Examiner : Dr. Mundell.

- 1 (a) Line of Brachial artery ? (b) In what direction would you compress it in the upper and lower parts of its course respectively ? 18
2. (a) Describe the insertion of the Pectoralis Major. (b) What is the practical importance of such insertion ? 10
3. Why bleed from the Median Basilic instead of the Median vein ? 6
4. In fracture of the radius between insertion of Pronator Radii Teres and Pronator Quadratus, what deformity usually results from muscular action ? 12
5. What is the action of the following muscles :—Gluteus maximus, Gluteus medius, Obturator internus, Obturator externus, Psoas magnus, Sartorius, Tibialis anticus, Adductor magnus. 24
6. Explain from an anatomical standpoint the beneficial effects that may ensue from the application of counter-irritants to knee joint. 10
7. Make a diagram illustrating the relative position of the structures in front of Ankle joint. 20

MEDICAL JURISPRUDENCE.

Examiner : DR. W. T. CONNELL.

1. Outline shortly your methods of making a legal Post-mortem examination. 15
2. What is "Hydrostatic test" in cases of suspected Infanticide? What is its value and its fallacies? What other proofs may be adduced as evidence of live birth? 20
3. Poisoning by "Rough on Rats" (Arsenic). What are the usual symptoms and post-mortem appearances? How would you treat a case of this poisoning? What viscera would you preserve for analysis and how? 20
4. You are called two days after a suspected rape in a virgin. Detail your methods of examination to determine if rape has been committed. 15

5. Write notes on "post-mortem appearances in strangulation," "born alive," "recognition of seminal stains," "adipocere," "testamentary capacity," "haemin test, its application and value."	30
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SENIOR PRACTICE OF MEDICINE.

Examiner: Dr. Fowler.

1. Give, in order of occurrence, the symptoms, physical signs and causes of mitral insufficiency.	20
2. What are the main causes of the occurrence of Nephritis in children? Why in children is it of more frequent occurrence than in adults? What are the best means of preventing its occurrence, and warding off complications?	25
3. What are the earliest manifestations of Neurasthenia?	10
4. Diagnose Catarrh of the small intestine from that of the large. Indicate the three most common morbid conditions of the large intestine in Dysentery, in the order of their occurrence.	25
5. Apart from Apoplexy give the main causes of an apoplectic condition, and give shortly the diagnosis.	20

SENIOR SURGERY.

Examiner: Hon. Dr. Sullivan.

1. Give causes, terminations and mode of treatment of Psoas Abscess.	20
2. What are the causes of Senile Gangrene? its mode of occurrence and treatment.	20
3. What information may be gained by the examination of the urine in injuries to the Brain?	15
4. What form of dislocation of the Elbow is most common? How would you reduce it?	10
5. Mention the injuries that may occur to the upper end of the Femur.	15
6. What do you understand by Shock? How induced? Give its symptoms and treatment...	20

HONOURS.

7 What is Coma? Diagnose its different causes and the treatment of each, with the reason for such treatment.

8. What accidents might occur during the employment of the taxis in any form of Hernia? How would you recognize and treat them?

SENIOR OBSTETRICS AND GYNÆCOLOGY.

Examiner: Dr. R. W. Garrett.

1. Name the phenomena indicating the onset of labor at full term.

2. Diagnose between threatened and inevitable abortion. Describe briefly the advantages derived from the use of the cervical and vaginal tamponade in cases where abortion is inevitable.

3. Name the causes and dangers to mother and child of inertia uteri in the second stage of labor.

4. Give the indications for the induction of premature labor. Name in order of efficiency *four* methods.

5. What is meant by primary and secondary amenorrhœa?

6. A tumor is discovered in the left inguinal region; to what causes may it be attributable?

7. Give the causes and symptoms of acute purulent salpingitis.

8. Describe briefly the important steps in the operation known as vaginal hysterectomy, using ligatures.

HONOURS.

9. In the case of a simple flat pelvis with a conjugate diameter of $3\frac{1}{2}$ inches or more, and where nature has failed to deliver spontaneously, name the methods by which delivery may be affected. Give the reasons which would guide you in the adoption of each method. (Vertex presentation).

10. Name the causes and explain what is meant by pelvic hæmatocele and pelvic hæmatoma. How would you diagnose them from a subperitoneal fibroid of uterus.

11. Diagnose inversion of uterus from (a) prolapse of uterus, (b) submucous pedunculated fibroid of uterus.

SENIOR MEDICAL AND SURGICAL ANATOMY.

Examiner: Dr. D. E. Mundell.

1. (1) Give the arrangement of (a) axillary glands,
(b) axillary fascia.
(2) Where would you make an incision for opening an
axillary abscess and why? 16
2. (1) Relations of (a) Olecranon to Internal Condyle.
(b) Styloid process of Ulna to that of Radius.
(2) How does a knowledge of first assist in diagnosis of
dislocation at elbow joint from fracture above
condyles; and of second, the diagnosis of Colles'
fracture from dislocation at wrist joint. .. 18
3. (a) Landmarks for Gluteal artery, Internal Pudic artery,
and division of Popliteal artery.
(b) Line of external Plantar artery.
(c) Lines of incision in Symes operation. What is the
arterial supply of heel flap in the latter? 22
4. Illustrate by a diagram the outline of Heart and the sit-
uation of the valves. 28
5. Make diagrams showing the situation of Spleen anteriorly
and laterally. 16

HONOURS.

6. What are the venous channels whereby septic processes
from without may affect by continuity the Cerebral sinuses.

7. A patient consults you with a tumor about the junction
of the right Hypochondriac, right Lumbar, Umbilical and Epigas-
tric regions. What structures may be involved?

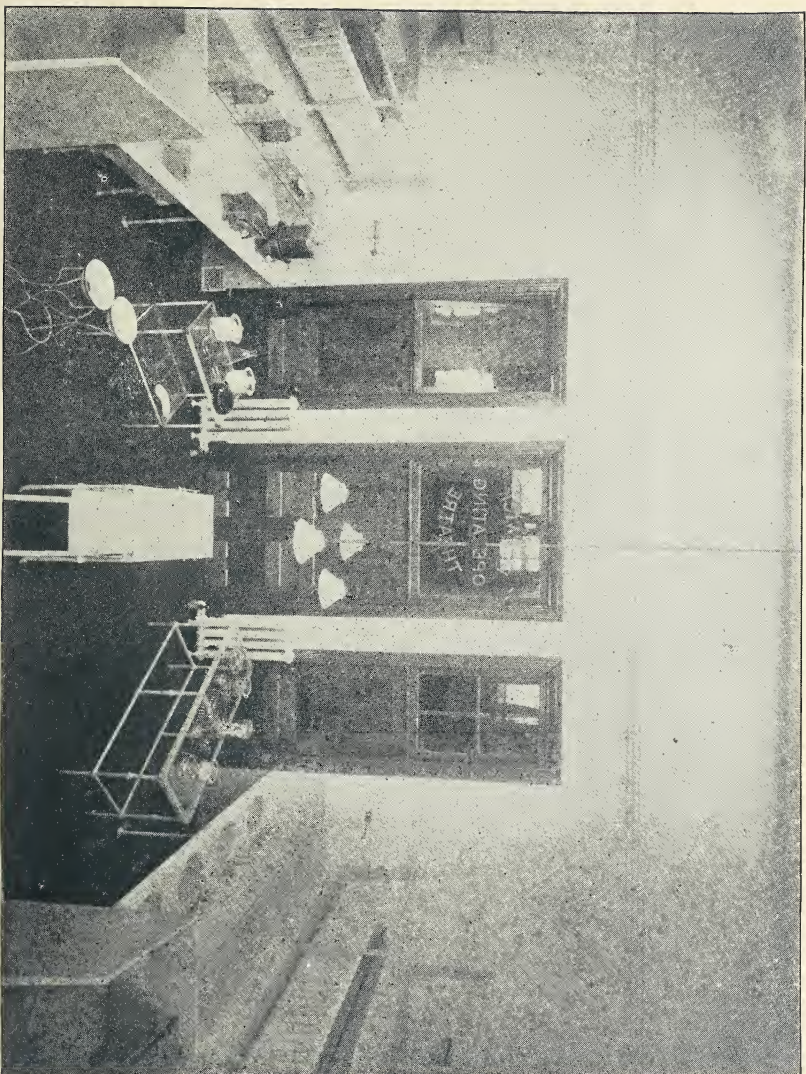
SANITARY SCIENCE.

Examiner: Dr. W. T. Connell.

1. In what ways may we have "diseased" meat inducing
disease when eaten by man.

What diseases, if any, of animals may be directly com-
municated to man by food products of such animals?

2. What methods would you employ to test the potability of
water and what are their respective values?



FENWICK OPERATING THEATRE.

What means might you adopt to purify a suspected water for domestic use?

3. Describe shortly (using diagrams if necessary) a proper system of water-carriage sewage removal from a house.

What is the general composition of sewer gas, and what may be the effects of escape of this gas into a house upon the health of the individuals therein?

4. What measures would you adopt in (a) Diphtheria, (b) Smallpox, (c) Tuberculosis to prevent the further spread of these diseases, giving your reasons for the measures employed?

DISEASES OF THE EAR AND NOSE.

1. Give in detail the use of the tuning fork in diagnosis of diseases of the ear.

2. Write notes on the four forms of Otitis Media, making reference to their relations to each other, diagnosis, symptoms and treatment.

3. State the nature of the various discharges which may come from the nose and their value in diagnosis.

BACTERIOLOGY.

Examiner: Dr. W. T. Connell.

1. How do we find Bacteria acting as the casual agents of disease?

2. Describe the Bacillus Diphtheria (Klebs-Loeffler), giving its morphological and cultural characters and the methods of clinical examination for its detection.

3. Describe the Tubercle Bacillus—its morphological, biological and staining characters. How may it enter and how leave the body?

4. Describe the micrococcus Gonorrhœa (Gonococcus) as regards disease producing characters—means of detection and differentiation from allied morphological forms.

5. Define “immunity,” “antitoxine,” “anærobe,” “bacillus,” “contagium,” “susceptibility.”

MEDICAL EXAMINATIONS, 1898.

PASSED FOR M. D. AND C. M.

Anderson, N. W.	Kingston.
Armstrong, C. C.	Kingston.
Birger, C. H.	Kingston, Jamaica.
Birkett, F. W.	Ottawa.
Callfas, W. F.	Kingston.
Collison, G. W.	Briston's Corners.
Condell, W. N.	Ventnor.
Corrigan, D. J.	Kingston.
Davis, N. A.	Fallowfield.
Doyle, J. D.	Belleville.
Elliott, H. H.	Frankville.
Fadden, W. S.	Brockville.
Gage, J. E.	Riverside, Cal.
Hanley, Robert.	Kingston.
Ilett, A. E., B.A.	Kingston.
Hills, W. H.	Acadia Mines, N.S.
Jaquith, W. A.	Sydenham.
Lake, E. J.	Kingston.
Malone, H. V., B.A.	Kingston.
Mather, J. F.	Plainfield.
Moffatt, William, M.A.	Carleton Place.
Morrison, C. A.	Kingston.
McCambridge, C. J.	Kingston.
O'Connor, C. E.	Kingston.
O'Hara, J. J.	Camden East.
Paul, J. H.	Newburgh
Pyke, N. J.	Sevewaing, Mich.
Redmond, R. C., B.A.	Lansdowne
Scribner, J. F.	Ottawa.
Smith, Rev. A. G.	Deseronto.
Stewart, A. E.	Kingston
Tinkess, A. L.	Greenbush.
Waldren, H. M.	Guelph.
Young, Ward, B.A.	Odessa.

UNIVERSITY MEDALS.

Elliott, H. H.	Frankville
Armstrong, C. C.	Kingston.

HOUSE SURGEONS.

Elliott, H.	Frankville
Armstrong, C. C.	Kingston

Next in order of merit,

Tinkess, A. L.	Greenbush
Fadden, W. S.	Brockville

Prize of \$25, awarded to the best examination in Senior Anatomy, Senior Physiology and Senior Materia Medica—T. H. Johnston, Stirton, Ont

ALPHABETICAL LIST OF GRADUATES.

A.

Abbott, Samuel A.	Deceased.	1868
Abbott, Rodney H.	Kingston	1879
Abbott, G. A.		1895
Adams, Geo. T. C.	Melbourne, Victoria	1892
Adams, Joseph	Plevna.	1892
Adamson, Herbert A.	Richmond City, Utah.	1892
Agnew, John, M.A.	Deceased	1865
Alexander, F. R.	Deceased	1881
Alexander, James A.	Deceased	1869
Allen, A. G.	Deadwood, S. Dak.	1887
Allen, James Ross.	Olean, N. Y.	1894
Alway, Enoch	Binbrook	1869
Ames, A. J.	Rush, Munroe Co., N. Y.	1895
Anderson, J. J.		1887
Anderson, Wm. J.	Jasper.	1894
Anderson, Wm. J.	Smith's Falls.	1861
Anglin, J. V., B.A.,	Prof. Bishop's College, Montreal, Que.	1887
Anglin, R. S.,	Omaha, Neb.	1882
Anglin, W. G.,	Prof. Queen's University, Kingston	1883
Armstrong, Albert.	Arnprior	1867
Armstrong, Alfred.	Deceased	1866
Austin, G. H.	Cairo, N. Y.	1893
Aylesworth, Arch. R.	Deceased	1863

B.

Baker, T. C.	Burlington, Vt.	1888
Balfe, T. H.	Hamilton	1892
Bannister, P. G.	Kingston, Jamaica.	1897
Barber, A. E.	Mishawaka, Indiana.	1892
Barber, W.	Brooklyn, N. Y.	1897
Barker, A. N.	Fenwick	1893
Beattie, Wm.	Wayran	1866
Beatty, Elizabeth R.	Brantford	1884
Beckett, James.	Deceased	1863
Beeman, T. A.	Newburgh.	1887
Beeman, T. W.	Smith's Falls.	1878
Beeman, W. C.	Centreville	1886
Begg, J. W.	Costa Rica.	1887
Belch, J. A.	Syracuse, N. Y.	1889
Bell, Alexander.	Lakefield	1865
Bell, James.	Deceased	1857
Bell, John, M.A.	Deceased	1866
Bell, John H.	Kingston	1890
Bellamy, A. W.		1877
Bilton, W. J.	Deceased	1892
Bennett, Henry.	Sullivan	1878
Benson, John R., B.A.	Deceased	1858
Birmingham, Mary E. (Macarow)	Kingston	1892

Birmingham, Francis	New York, N. Y.	1892
Bernard, Gerald	Newcastle-on-Tyne, Eng.	1871
Berry, G. H.	Seeley's Bay	1895
Bertram, T. A.	Dundas	1885
Bethune, Alex.	Seaforth	1858
Bethune, H. T.	Clanbrassie	1869
Betts, Alfred H.	Deceased	1875
Betts, John Howard, M.R.C.S.	Deceased	1881
Bice, Mark	Mount Brydges	1869
Bigham, John	Deceased	1865
Bingham, Hugh	Deceased	1864
Bingham, James	Peterboro	1868
Bird, Francis W.	Deceased	1859
Bird, Nelson J.	San Francisco, Cal.	1860
Bissonnette, Julien D., B.A.	Napanee	1892
Black, B. F.		1897
Black, Wm. A.	Deceased	1862
Blakeley, Robert	Deceased	1861
Blaylock, Ella	Nassau, N. H.	1887
Bleasdel, Chas. E.	Deceased	1868
Booth, Donald B.	Deceased	1868
Boucher, Joseph A.	Watertown, Mass.	1894
Bourns, T. C.	Calabogie	1892
Bourns, W. H.	Addison	1892
Bowen, Geo. H.	Gananoque	1877
Bowen, Robert	H. M. S.	1865
Bowers, Sam. S.	Fond du Lac, Wis.	1857
Boyle, Arthur A.	Toronto	1859
Boyle, Joseph A., B.A.	Gananoque	1896
Brady, James	Camden, N. Y.	1891
Branagan, P. R.	Deceased	1862
Bray, John L.	Chatham	1863
Bridgeland, Sam.	Bracebridge	1870
Brien, James	Essex Centre	1872
Brown, Jonathan.	New Lothrop, Mich.	1893
Brown, Marshall J.	Kingston	1856
Bruce, Frederick	Mount Morris, Mich.	1886
Buchanan, H. M.	St. Lawrence, N. Y.	1889
Bullis, Wm. H.	Rochester, N. Y.	1884
Burdett, H. E.	St. Paul, Minn.	1886
Burrows, John G.	Napanee	1891
Butler, Tobias J.	Chicago, Ill.	1895

C.

Camelon, T. P.	Chicago, Ill.	1890
Cameron, A. D.	Deceased	1882
Cameron, Dan	Deceased	1887
Cameron, W. A., B.A.	Unknown	1890
Campbell, Albert L.	Mount Amherst, Ohio.	1889
Campbell, Geo.	H. M. Navy	1859
Campbell, Jas. W.	Prof. Queen's University, Kingston.	1891
Campbell, John H.	Deceased	1856
Campbell, Joseph	Ontario, N. Y.	1867
Campbell, Joseph S.	Ontario, N. Y.	1890
Campbell, P. McG., B.A.	Admaston	1896
Carmichal, Andrew	Sundridge	1891
Carscallen, Allen B.	Enterprise	1875

Carscallen, W. E.	Tamworth	1897
Cartwright, R. C.	Rochester, N. Y.	1884
Case, Geo. H.	Deceased	1876
Casselman, J.		1886
Chaffey, E.	Santa Monica, Cal.	1871
Chamberlain, T. F.	Inspector of Prisons, etc., Toronto.	1862
Chamberlain, W. P.	Morrisburg	1888
Chambers, Dan	Deceased	1855
Channonhouse, John	Eganville.	1863
Channonhouse, R. C.		1889
Channonhouse, Thos.	Deceased	1860
Chisholm, H. F.	Deceased	1857
Chown, A. P.	Kingston	1890
Chown, H. H.	Prof. University of Manitoba, Winnipeg, Man.	1880
Clancy, C. C.	Port Huron, Mich	1883
Clark, C. W. D.	Tamworth	1885
Clarke, James	Bay City, Mich	1868
Clarke, John.	Peterboro	1872
Clarke, John G.	Meaford	1880
Clarke, Wm	Ireland	1879
Claxton, Wm	Verona	1874
Cleaver, J. C. C., M.A.	Montserrat, Trinidad	1879
Cleaver, W. G.	Wigan, Eng	1879
Clerihew, E. M.	New York	1890
Clinton, Geo.	Belleville	1878
Cloutier, F.	Crysler	1889
Cluness, Wm P., B.A.	Sacramento, Cal.	1859
Cogan, J. R.	Deceased	1861
Coleman, Wm. F.	163 State St., Chicago, Ill	1863
Collins, Con	Deceased	1886
Comer, A. F.	New York	1864
Connell, J. C., M.A.	Prof. Queen's University	1888
Connell, W. G., M.R.C.S., Eng.	Prot. Queen's University	1894
Conerty, J. M.	Smith's Falls	1886
Cook, W. H.	Minneapolis, Minn	1888
Coon, D. A.	Elgin	1890
Corbett, Geo. H.	Orillia	1856
Corbett, Henry T.	Deceased	1868
Corlis, Margaret A.	Fremont, U. S. A.	1885
Cormack, J. H.	Ottawa	1893
Cornell, A. P.	Brockville	1882
Cornell, S. S.	Athens	1886
Corry, Robert	Deceased	1861
Coughlin, Richard	Hastings	1881
Countryman, John E.	Bathgate, N. Dak	1893
Coutlee, H. N.	Sharbot Lake	1882
Coy, W. F.	Chicago, Ill.	1886
Craft, R. A.	Plainfield	1895
Craig, Hugh A.	Cobourg	1878
Craine, Agnes	Smith's Falls	1888
Cranston, Jas. G.	Arnprior	1860
Cranston, Jas. J.	Arnprior	1895
Crawford, Joseph.	Deceased	1857
Creegan, John G., B.A.	Delta	1886
Croskery, E. A.	Trelona, Wyo.	1897
Cryan, John.	Demorestville	1883
Cumberland, Thos.	Deceased	1884

Cunningham, D., B.A.	Deceased	1890
Cunningham, H. C.	Carman, Man.	1885

D.

Dame, A. A.	Toronto	1886
Darragh, R. J.	Chippewa	1866
David, Alfred	Atlantic Mines, Mich.	1873
David, W. C.	West Bay City, Mich.	1889
Davidson, Myers	Deceased	1864
Davis, John J.	New York	1894
Davis, L. T.	Nanaimo, B.C.	1883
Davis, R. A.	Easton's Corners	1876
Davis, R. H.	York	1858
Davis, Sidney N.	York	1891
Dawson, H. G.	Cape Vincent, N. Y.	1885
Day, B. W.	San Diego, Cal.	1862
Day, H. W.	Belleville	1859
Day, Jonathan	Deceased	1877
Day, L. F.	Deceased	1880
Day, W. P. W. A.	Deceased	1871
Deans, Geo.	Deceased	1865
Deans, W. C.	Deceased	1861
Demorest, Clara	Napanee	1890
Denaut, H. D.	South Bend, Ind.	1892
Denike, G. M.	Fulton, N. Y.	1882
Deynard, A. B.	333 W. 51st St., New York	1875
Dickson, A. E.	Deceased	1886
Dickson, C. R.	Toronto	1880
Dickson, John R.	Deceased	1863
Dickson, John R.	Deceased	1868
Dingman, W. A. E.	Listowell	1875
Dixon, A. F.	Toronto	1890
Dixon, John H.	Burlington, Iowa	1890
Dixon, M. L.	Frankville	1886
Donovan, E. J.	Langdon, N. Dak.	1886
Donovan, P. C.	Neché, N. Dak.	1879
Douglas, H. E.	Muncia, Ind.	1892
Douglas, H. C. M.	Kingston, Jamaica	1897
Douglas, Robert, B.A.	Deceased	1855
Downing, J. J., B.A.	Chesley	1896
Downing, W. H.	Deceased	1888
Dowsley, D. H.	Kingston	1875
Dowsley, Geo. C.	Gore Bay	1877
Drennan, Jennie G.	Kingston	1895
Drummond, P.	Grant, Mich.	1889
Drummond, S. J.	Almonte	1897
Duff, John	Deceased	1889
Duff, H. Ramsay	Kingston	1884
Dugdale, J. J.	Deceased	1867
Dumble, T. H.	Deceased	1877
Dumble, W. C.	Toronto	1870
Dunbar, Sam.	Deceased	1855
Dunlop, J. D.	Alpena, Mich.	1887
Dunlop, Neil	Sydenham	1861
Dunning, A. G.	North Augusta	1864
Dunning, J. C.		1897
Dupuis, E. L.	South Bend, Ind.	1890

Dupuis, J. M.	Deceased	1881
Dupuis, Thos. R.	Deceased	1860
Dwyre, A. W.	Perth	1885
Dyde, C. B., B. A.	Kingston	1897

E.

Earl, W. M.	Bishop's Mills	1891
Echlin, E. B., B.A.	Ottawa	1890
Elliott, A. R.	Chicago, Ill.	1889
Elmer, W. H.	Spokane Falls, Wash.	1858
Elwell, W. D.	Deceased	1863
Embury, A. T.	Belleville	1896
Embury, Elizabeth.	Belleville	1888
Emery, G. F.	Gananoque	1889
Emery, H. J.	Croswell, Mich.	1884
Empey, C. P.	Cross Hills, Leeds, Eng.	1880
Empey, W. A.	Spencerville	1891
Erly, F. W. J.	Deceased	1860
Errett, A. J.	Deceased	1887
Evans, Henry.	Deceased	1858
Evans, Henry A.	Picton	1878

F.

Fairbairn, A. C.	Minneapolis, Minn.	1871
Farley, F. G.	Trenton	1894
Farrell, J. T.	Deceased	1861
Farrell, T. H., M. A.	Utica, N.Y.	1895
Fee, Sam. H.	Kingston	1862
Fenwick, K. N., M.A.	Deceased	1874
Fenwick, T. M.	Kingston	1864
Ferguson, A. G.	Chicago, Ill.	1887
Ferguson, C. F.	Kemptville	1859
Ferguson, Ed. G.	Macon, Georgia	1863
Ferguson, R. B.	Deceased	1863
File, A. J.	Ameliasburg	1869
Fisher, A. J.	Brigdon	1887
Fitzgerald, G. D.		1894
Fleming, H. P.	Ottawa	1895
Foley, D. E.	Westport	1886
Foley, J. J.	Deceased	1891
Ford, A. B., M.A.	Kingston	1897
Ford, H. B.	Morewood	1885
Ford, H. D.	Chicago	1874
Forin, A.	Rossland, B. C.	1884
Forrester, Edgar L., B.A.	Brockville	1884
Foster, R. J.	Deceased	1859
Fowkes, J. G.	Omar, N. Y.	1891
Fox, E. C.		1864
Foxton, E.	Bondhead	1884
Franklin, B. W.	Port Burwell.	1856
Fraser Auson S.	Sarnia	1869
Fraser, J. B.	Toronto	1888
Fraser, John M., B.A.	Deceased	1861
Fraser, R. N.	Thamesville	1884
Fraser, Wilhelmine.	India.	1890
Freeland, A.	Ottawa	1889
Freeman, A. E.	Inverary	1887

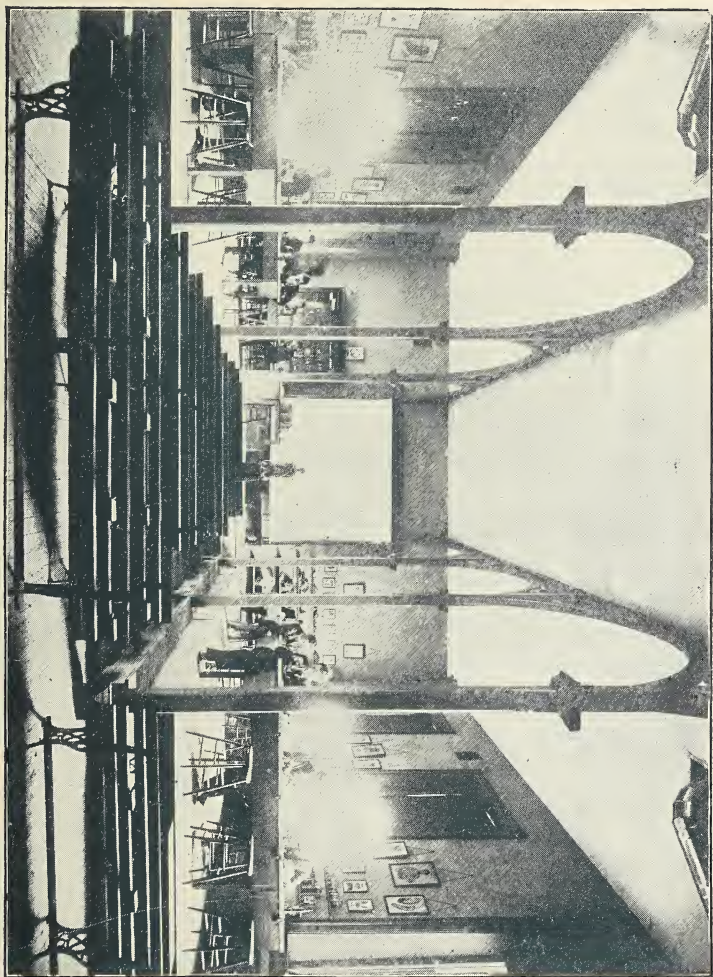
Froiland H. M., B.A.	Deceased	1883
Fulton, Cyril	Fort Covington, N.Y.	1894
Funnell, Ada A.	Hamilton	1897
Funnell, Roselle V.	Ottawa	1890

G.

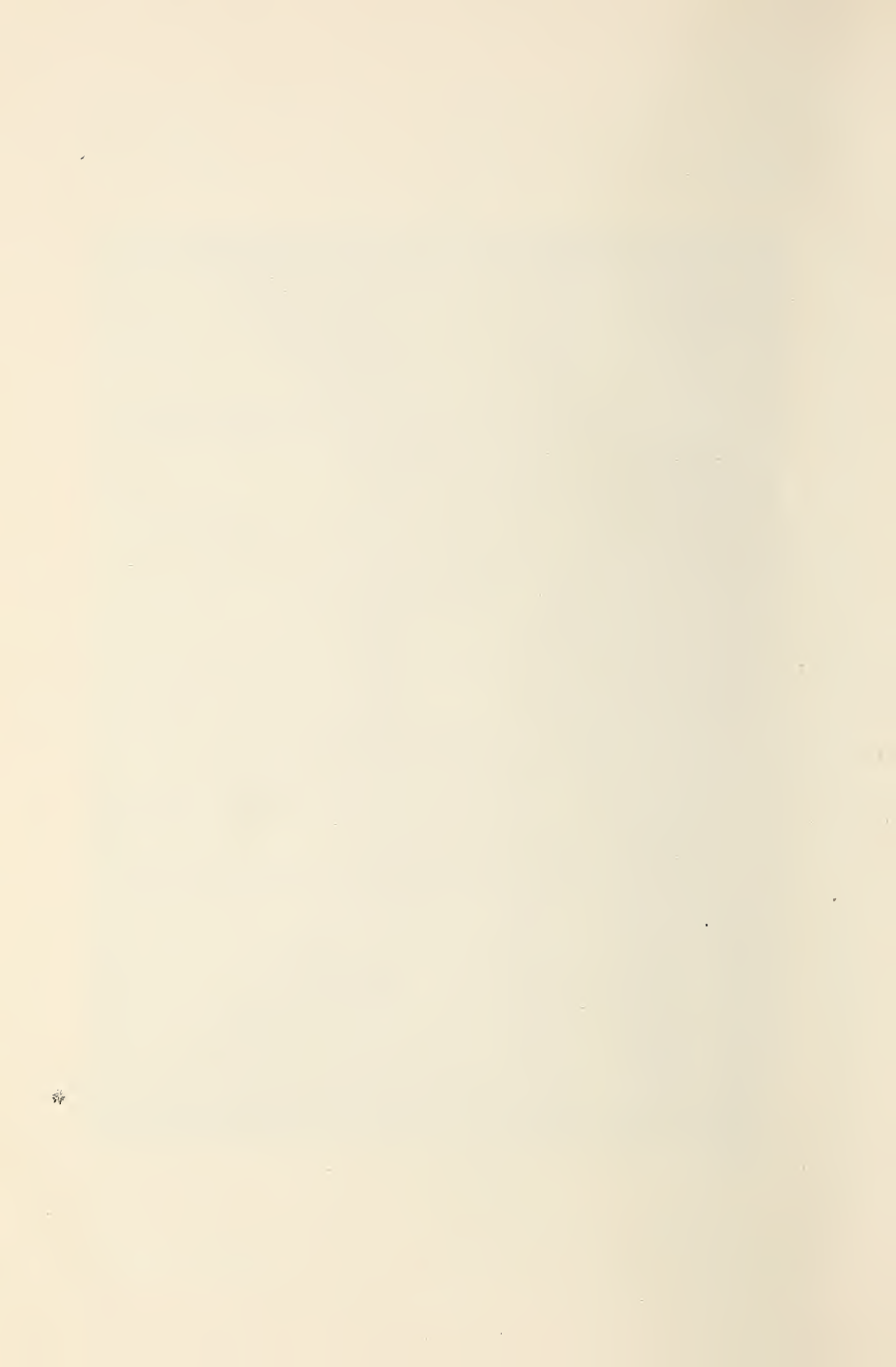
Galbraith, John E.	Deceased	1880
Gallagher, M.	Campbellford	1887
Gallinger, T. G.	Eganville	1886
Gandier, A.	Avon Park, Fla.	1890
Gardiner, R. J.	Seeley's Bay	1891
Gardiner S. H., M.A.	Brooklyn N.Y.	1889
Garrett, R. W., M.A.	Prof. Queen's University, Kingston	1882
Genge, W. W.		1891
Gerin, John	Auburn	1872
Gibson, A. E.	Oakland, Iowa	1887
Gibson, A. M.	Deceased	1874
Gibson, J. C., M. A.	Centreville	1896
Gibson, J. C.	New Haven, Mich.	1892
Gibson, James F.	Kingston	1891
Gibson, Jas. L.	Brussels	1893
Gibson, John J.	Alexandria, Ind.	1893
Gibson, W. J., M.A.	Belleville	1881
Giles, G. C.		1893
Giles, John E.	Athens	1860
Gillen, E.		1894
Gillespie, H. N.	Bassett, Iowa	1896
Gillies, Neil B.	Brandon, Man.	1871
Gillis, A. B.	Bass River, N.S.	1888
Gleeson, Jas. H.	Deceased	1864
Gould, Rev. S. H., B. A.	Constantinople	1897
Graham, H. C. W.	Rochester, N. Y.	1889
Grant, N. M., B.A.	Waipairo, New Zealand	1889
Grasse, Sidney D.	Deceased	1864
Gray, W. A.	Pembroke	1890
Green, Sam. D.	Marquette, Mich.	1891
Gunsolus, Kenneth	Detroit, Mich.	1871

H.

Hackett, Joseph	Deceased	1858
Hagar, F. C.	Portland	1895
Haig, Andrew	Campbellford	1891
Hamilton, David	Batavia, N. Y.	1862
Hamilton, John A., B.A.	Deceased	1886
Hannah, J. E.	Ottawa	1886
Hare, W. G.	Bay City, Mich.	1892
Harkness, F. B.	North Gower	1889
Harrington, A. W.	Deceased	1881
Harrison, E. D.	Madoc	1891
Harrison, T. S.	Selkirk, Man.	1862
Hart, J. E.	Athens	1887
Hart, M. W.	Prescott	1887
Harty, J. J.	Kingston	1897
Harvey, A. E.	Wyoming	1869
Harvey, W. D.	Hillsboro, Dak.	1889
Hay, Wm., B.A.	Antwerp, N. Y.	1887
Hayunga, George	New York	1890



PATHOLOGICAL AND PHYSIOLOGICAL MUSEUM.



Heath, F. C., B.A.	Brantford.	1886
Heggie, David	Brampton.	1865
Henderson, D.	Winnipeg, Man	1858
Henderson, E. Mabel	Hamilton	1892
Henderson, Kenneth	Clyde River, P.E.I.	1888
Henderson, N. R., B.A.	London.	1895
Henderson, Wm	Deceased	1859
Henderson, Wm. H., M.R.C.S	Deceased	1879
Hendry, Geo.	Deceased	1869
Herald, Dundas	Quesnell, B. C	1891
Herald, John, M.A.	Prof. Queen's University, Kingston.	1884
Herald, R. T. W	15 ⁷ Mile, B. C	1890
Herriman, W. L	Lindsay	1855
Herrington, A. W.	Deceased	1881
Heslop, J. E.	Thompson, Mich	1887
Hickey, D. C.	Deceased	1883
Higginbotham, Wm.	Omeme	1871
Higgins, E. M	Deceased	1877
Hilker, A. E.		1889
Hill, F. L.	Economy, N S	1897
Hillies, S. C.	Bowmanville.	1869
Hillier, Wm.	Deceased	1855
Hoare, W. W.	Strathroy.	1864
Hodge, Geo.	Mitchell.	1870
Holdcroft, Joseph.	Inverness, Que.	1889
Holdcroft W. T., B. A.	Havelock	1890
Holmes, F. S. L.	Kemptville	1877
Hooper, E.	Toronto	1885
Horsey, Alfred	Ottawa	1865
Horsey, E. H.	Deceased	1860
Horsey, E. H.	Yokohama, Japan	1888
Horton, R. N.	Brockville	1879
Hossie, T. R.	Gouverneur, N. Y.	1878
Hourigan, A. R.	Peterboro.	1877
Houston, W. R.	Chatham	1871
Howell, G. W.	Tweed	1867
Howells, T. B.	Deceased	1863
Hubbs, H. A. M.	Bay City, Michigan	1877
Hudson, C. H.		1896
Huffman, F. G.	Napanee	1897
Hutchison, John.	Meaford	1886

I.

Ingersoll, I. F.		1863
Irvine, W. H., B.A.	Grand Rapids, Mich	1896
Irwin, A. W.	Kingston	1896
Irwin, C. A.	Deceased	1863

J.

Jack, G. G.	Houlton, Me.	1886
James, Chas.	Sylvan, deceased	1888
James, H. J.	Bathgate, N. Dak.	1893
James, M.	Mattawa	1887
Jamieson, A.	North Gower	1886
Jamieson, Allison	Wicklow.	1892
Jamieson, D.	Kars	1888
Jamieson, T. D.	Mountain	1888

Jamieson, John		1881
Jarvis, Chas. E	London	1882
Johnston, A. H. J	Lockport, N. Y.	1862
Johnston, D. A	Deceased	1881
Johnston, W. J		1891
Johnstone, D. A	Deceased	1868
Johnstone, W. H	Tacoma, Wash.	1889
Jones, A. W	Watertown, N. Y.	1896
Jones, H. M.	Marmora	1866
Jones, John	Kemptville.	1874
Joy, Sylvanus	Tilsonburg	1857
Joyner, N. P	Deceased	1893
Judson, G. W	Lyn	1879

K.

Kahkewaquonaby	Hagarsville	1866
Kalbfleish, F. H	Newstead	1888
Kaylor, W. B	Morrisburg	1896
Kellock, D	Fullerville Mines, N. Y.	1890
Kellock, J. D.	Deceased	1862
Kelly, David	Deceased	1861
Kelly, E. J	Deceased	1861
Kelly, John J., B.A.	Sidney, New South Wales	1892
Kelly, W. G.	Unknown	1897
Kemp, J. A.	Deceased	1861
Kemp, J. A	Indian Head, N. W. T	1892
Kennedy, Alex	Port Arthur	1876
Kennedy, J. B	New South Wales	1873
Kennedy, J. T.	Fort McKavett, Tex	1891
Kennedy, R. L	Bath	1863
Kennedy, W. R	Guelph	1878
Kertland, E. H	Toronto	1865
Kidd, L.	Pictou	1871
Kidd, John F.	Ottawa	1883
Kidd, Peter E	Brooklyn, N. Y.	1878
Kidd, Wm. E.	Oak Park, Ill	1891
Kilborn, O. L., M. A.	Chentu, China	1889
Kilborn, R. K.	Kingston	1879
Kincaid, Robert	Olympia, Wash.	1863
Kinsley, P. J	Fairfield, Vt.	1894
Kirk, F. J., B.A.	Brooklyn, N. Y.	1892
Knight, A. S		1897
Knight, J. H	Wallaceburg	1880
Knox, Henry	Shawville, Que.	1882
Koyl, F. H.	Hornellsville, N. Y.	1888
Koyle, F. H	Ada, Minn.	1882
Kyle, R. J. L.	Deceased	1895
Kyle, Wm. A.	Lanark	1885

L.

Lafferty, James	Calgary, Alberta.	1871
Lafferty, Wm. A.	Deceased	1879
Laidlaw, Alex. R.	Deceased	1857
Lake, C. B	Ridgetown	1866
Lambert, Robert	Windsor	1859
Lane, J. J.	North Williamsburg	1886
Lane, J. W	Mallorytown	1874

Lanfear, H. O.	Lakefield, Ind.	1889
Lavell, C. H.	Deceased	1873
Lavell, M.	Toronto	1863
Lavell, Wm. A.	Deceased	1881
Lavers, F. C.	New Ross, N.S.	1891
Lawlor, M.	Deceased	1857
Lawyer, Annie.	Ottawa	1888
Leahy, B. J.	Port Jarvis, N.Y.	1894
Leavitt, A. S.	Toronto	1869
Leavitt, Minnie G.	East Hatley, Que.	1893
Lent, E. J.	Lakefield, Ind.	1892
Leonard, R. A.	Napanee	1879
Letellier, A.	Peterboro.	1897
Lewis, F. W.	Orangeville	1878
Litchfield, J. P.	Deceased	1863
Little, W. C.	Australia	1889
Livingston, J. S.	Deceased	1887
Livingston, Marion (Gillen)		1887
Locke, J. A.	Iroquois	1893
Lockhart, A. J.	Harrowsmith	1892
Lockhart, Geo. D.	Mount Brydges	1890
Lofthouse, W. O. R.	Kingston, Jamaica	1895
Lyle, W. D.	Morrisburgh	1896
Lynch, D. P.	Almonte	1878

Mc.

McAdam, S. J.	Pembroke	1873
MacArthur, J., B.A.	London	1878
McArthur, J. H.	Barre, Vt.	1897
McBroom, J. A.	Gananoque	1895
McCammon, C. G.	Deceased	1884
McCammon, F. J., B.A.	New York	1892
McCammon, James	Deceased	1863
McCammon, James A.	Gananoque	1879
McCammon, S. H.	Kingston	1888
McCardell, E. J.	Australia	1886
McCarthy, W. A.	Stapleton	1897
McColl, A. E., B.A.	Belleville	1891
McConnell, B. J.	Morden, Man.	1881
McConville, Isobel	Kingston,	1889
McCuaig, J. A. E.	Danville, Penn.	1891
McCullough, Thos. P.	Dundalk	1888
M-Cullough, Wm. S.	Deceased	1879
McCutcheon, W. C.	Cassopolis, Mich.	1894
McDermott, M. F.	Kingston	1897
McDonald, H. S., B.A.	Dresden	1895
McDonnell, H.	Deceased	1893
McEwen, A. D.	Ogdensburg	1895
McEwen, Ewen	Singhampton	1887
McFadden, Murdoch	Mount Forest	1880
McGhie, Geo. S.	Elgin	1883
McGillivray, Alice	Hamilton	1884
McGillivray, T. S.	Hamilton	1888
McGrath, E.	Peterboro	1888
McGrath, Geo.	Hamilton, Mon.	1893
McGrath, M. E. L.	Chicago, Ill.	1889
McGregor, J. G.	Martintown	1895

McGurn, J. S.	Deceased	1881
McIntyre, Duncan	Glencoe	1864
McKellar, Dugald	Deceased	1855
McKellar, Margaret	Neemuch, India	1890
McKenty, James	Gretna, Man.	1890
McKenzie, Andrew	Deceased	1862
McKenzie, Edward	Smith's Falls	1860
McKeown, H. A.	Belleville	1895
McKillop, J. T.	Beachburg	1889
McLaren, Alex.	Lancaster	1865
McLaren, A. F.	Lancaster	1897
McLaughlin, E.	Morrisburg	1886
McLean, C. R.	Meatord	1859
McLean, E. H.	Revelstoke, B.C.	1891
McLean, S. C.	Spencerville	1874
McLean, Thos. F.	Goderich	1863
McLennan, Alex. S.	277 S. Halstead St., Chicago, Ill.	1873
McLennan, D. N.	Port Hope	1891
McLennan, D. R.	Williamstown	1897
McLennan, Jas. A.	Economy, N.S.	1891
McMahon, James	Texarkana, Tex.	1873
McManus, J. P. C.	Bath	1897
McMurphy, Arch., B.A.	North Bay	1883
McNee, J. Edwin	Deceased	1891
McNichol, Eugene E.	Cobourg	1877
McPherson, C. F. S.	Prescott	1896
McPherson, W. A.	Deceased	1891
McVety, A. F.	Toledo, Ohio	1886

M.

Mabee, C. G.	New Providence, Iowa	1888
Mabee, J. E.	Odessa	1887
Mabee, M.	Riverside, Cal.	1887
Macdonald, Alex. R.	Brighton	1857
Macdonald, Hugh N.	Lake Ainslie, C.B.	1882
Macdonald, J. A.	Port Arthur	1862
Macdonald, J. F.	Kilkenny, Minn.	1896
Macdonnell, J. A.		1862
Mackie, D. H.	New York	1884
Mackie, T. A.	Kemptville	1896
MacPherson, A. J.	Deceased	1862
Malcolm, W. G.	Chesley	1893
Mallory, C. N.	Delta	1888
Mann, James	Renfrew	1869
Mark, Robert	Deceased	1867
Marselis, E. H.	South Finch	1895
Massie, John	Deceased	1865
Masson, Thomas	Cape Vincent, N.Y.	1875
Mather, W. M.	Tweed	1886
Matheson, Murdoch	Waverley, N. S. Wales	1870
Mavety, Alex. C.	Toronto	1889
Maxwell, W. J.	Deceased	1888
Meacham, Geo. P.	Limestone, N.Y.	1891
Meadows, R. W.		1862
Meagher, Dan	Montreal, Que.	1867
Mellow, S. J.	Port Perry	1886
Melville, E. J.	Bakersville, Vt.	1892

Mercer, J. G.	Deceased	1855
Merriman, W. H.		1895
Metcalfe, A. A.	Almonte	1896
Miller, J. C. S.	Seattle, Wash.	1890
Miller, L. F.	Toronto	1877
Milliner, W. S.	Oswego, N.Y.	1864
Minnes, R. S., M.A.	London, Eng.	1893
Mitchell, C. F.	Cleveland, Ohio	1890
Mitchell, Elizabeth S.	Montreal, Que.	1888
Mitchell, H. F.	South Bend, Ind.	1889
Mooney, Thos. F.	Rochester, N.Y.	1896
Moore, Andrew	Deceased	1863
Moore, John	Plainfield	1891
Moore, T. A.	Westville, N.S.	1883
Moore, V. H.	Brockville	1870
Morden, F. W.	Deceased	1894
Morden, J. B.	Picton	1865
Morden, John H.	Deceased	1859
Mordy, A. A.	Ashton	1882
Morgan, E. M.	Westmount, Que.	1890
Mostyn, Wm.	Deceased	1858
Mundell, D. E., B. A.	Prof. Queen's University, Kingston	1886
Mundell, John	Kingston	1886
Munro, David	Perth	1867
Munro, John C.	South Finch	1867
Murphy, John B.	Brockville	1876
Murphy, Jos. E.	Pakenham	1893
Murray, H. G.	Baltimore	1896
Murray, Janet	Rossmore	1891
Myers, A. R.	Moncton, N.B.	1894
Mylks, G. W.	Kingston	1897

N.

Neish, D. B.	Port Royal, Jamaica	1897
Neish, James	Port Royal, Jamaica	1865
Neish, James	Kingston, Jamaica	1897
Neish, J. G.	Bath, Jamaica	1890
Neish, W. D.	Old Harbour, Jamaica	1887
Nesbitt, Edward	Deceased	1868
Neville, M. J.	Brooklyn, N.Y.	1893
Newlands, Geo.	Seattle, Wash.	1879
Newton, John	Deseronto	1866
Nichol, James	Deceased	1863
Nimmo, Rev. J. H., B.A.	Brockville	1886
Northmore, H. S.	Bath	1889

O.

Odlum, John	Woodstock	1880
Ogilvie, Nettie	Kingston, Jamaica	1888
O'Hara, Margaret	Indore, India	1891
Oldham, Ed.	Chatsworth	1881
Oldham, J. H.	Yarker	1891
Oliver, A. S.	Kingston	1863
Oliver, J. K.	Deceased	1868
Oliver, Marion	Indore, India	1886
O'Neil, Thos.	Deceased	1888
O'Reilly, Anthony	Deceased	1861

O'Shea, James.....	Deceased.....	1881
O'Sullivan, John.....	Deceased.....	1868

P.

Page, T. A.....	Brockville.....	1883
Parker, Robert.....	Stirling.....	1861
Parlow, A. B.....	Aultsville.....	1894
Patterson, J. A.....	Iron River, Wis.....	1889
Patterson, J. R.....	Port Elgin.....	1867
Patterson, John M.....	Okiowa, Neb.....	1890
Patterson, Richard L.....	Buffalo.....	1885
Pereault, Julien.....	San Francisco, Cal.....	1857
Phelan, Dan.....	Kingston.....	1877
Phelan, Leo, B.A.....	Ackley, Iowa.....	1890
Pirie, A. F.....	Cartego, Costa Rica.....	1887
Pirie, H. H.....	Cartego, Costa Rica.....	1890
Pitblado, C.....	1886
Potter, Levi.....	Enniskillen.....	1870
Potter, Samuel.....	Deceased.....	1875
Potter, Thomas.....	Ottawa.....	1876
Pratt, W. F.....	Bruchnel.....	1888
Pratt, Wilton.....	Carleton Place.....	1888
Preston, R.....	Carleton Place.....	1875
Preston, R. H.....	Ottawa.....	1864
Price, R. B.....	Bath.....	1866
Purdy, A. N.....	Grand Falls, Mon.....	1873
Purdy, Chas. W., LL.D., Professor Chicago Post Graduate Medical School, Chicago, Ill.....	1869

R.

Rainstead, H.....	Ottawa.....	1887
Ramsay, Robert.....	Deceased.....	1861
Rankin, W. H.....	Brooklyn, N.Y.....	1889
Raymond, Nelson C.....	New Rochelle, N.Y.....	1891
Reeve, Henry H.....	Almonte.....	1880
Reeve, John L.....	Clinton.....	1882
Reeve, Richard A.....	Toronto, Dean of Toronto School of Medicine	1865
Reid, John D.....	Cardinal.....	1890
Reid, W. D.....	Barre, Vt.....	1881
Reilly, Adrian.....	Welland.....	1862
Reynolds, Helen E. (Ryan).....	Sudbury.....	1885
Robertson, A. C.....	Whitney.....	1893
Robertson, J. W.....	Hopewell, N.S.....	1888
Robinson, Andrew.....	Kalamazoo, Mich.....	1889
Robinson, Andrew.....	Fort Wayne, Ind.....	1895
Robinson, E. B.....	Rodney, Iowa.....	1891
Robinson, R. P.....	Ottawa.....	1888
Robinson, R. R.....	Klondyke.....	1892
Roche, W. P.....	Deceased.....	1860
Rockwell, Albert.....	West Duluth, Minn.....	1868
Rockwell, A. S.....	Rochester, N. Y.....	1872
Rogers, D. H.....	Gananoque.....	1881
Rose, Geo. Sr., B.A.....	Deceased.....	1860
Ross, A. E., B.A.....	Kingston.....	1897
Ross, T. K.....	Fredonia, N.Y.....	1863
Rourke, Francis.....	Dublin.....	1872
Roy, Henry.....	Chisholm.....	1885

Russell, D. G.	Mankota, Minn.	1885
Rutherford, D. B.	Deceased	1882
Rutherford, Jas.	Orono	1870
Ruttan, F. S.	Yarker	1893
Ruttan, J. B.	Wellington	1863
Ryan, Clara	Sherman, Texas	1893
Ryan, Ed., B.A.	Prof. Queen's University, Kingston.	1889
Ryan, M. D.	Oates	1891

S.

Sands, Ernest.	Deceased	1889
Sands, W. W.	Sunbury	1894
Saunders, H. J.	Deceased	1869
Saunders, Lawrence	Deceased	1868
Sayers, Alex.	Deceased	1870
Scales, Thos., B.A.	Deceased	1887
Scott, P. J.	Southampton	1888
Scott, Thos B., B.A.	Jaffna, Ceylon.	1892
Scott, W. J.	Lanark	1891
Scott, W. B.		1897
Scott, W. S.	Southampton	1855
Scovill, Simmons	Rat Portage	1877
Seagar, James	Ottawa	1894
Searls, A. W.	Deceased	1864
Shannon, J. R., B.A.	Polyclinic Post Graduate School, New York	1899
Shaw, J. M., B.A.	Lansdowne	1886
Shirley, J. W.	Watford	1863
Sievwright, James	Deceased	1870
Skimmons, Nellie	Hamilton	1892
Skinner, Henry	Deceased	1862
Smellie, D. McK.	Madoc	1888
Smith, Elizabeth (Shortt).	Kingston	1884
Smith, F. B.	Watertown	1886
Smith, George	Deceased	1858
Smith, Geo. H. W.	Sydney, N. S. Wales	1892
Smith, James F.	Mhow, Central India	1888
Smith, John R.	Deceased	1863
Smith, R. G.	Oakland, Iowa	1893
Smith, R. A.	Evans Mills, N.Y.	1883
Snider, E. T.	Inwood	1889
Snider, S. H.	Carman, Man.	1881
Somerville, James A., B.A.	Marionette, Wis.	1866
Spafford, H. W.	Deceased	1855
Spankie, James E.	Banff, N.W.T.	1891
Spankie, Wm., B.A.	Wolfe Island	1885
Sparham, Geo. S.	Deceased	1859
Spear, Hugh	Toronto	1873
Spencer, Henry	Deceased	1862
Spooner, Geo. D.	Deceased	1860
Spooner, H. S.	Deceased	1869
Stevens, N. G.	Ashkum, Ill.	1892
Stevenson, John A.	Chicago	1894
Stewart, Alex.	St. Thomas, N. Dak.	1889
Stewart, Alex. J.	Orillia	1869
Stewart, Geo. A.	Elmside, Que.	1895
Stewart, John M.	Chesley	1882
Stirling, James A.	Hamilton	1885

Stirling, John G	Detroit, Mich.	1884
Storms, D. G.	Hamilton	1886
Stowell, O. O.	Orillia	1869
Stuart, Wm. A., B.A.	Clarenceville, Que.	1891
Sullivan, D.V., B.A., M.R.C.S., Demonstrator of Anatomy	Queen's University, Kingston	1892
Sullivan, Hon. M.	Prof. Queen's University, Kingston	1858
Sullivan, Thomas	Deceased	1863
Sweetland, John	Ottawa	1858
Switzer, W. H.	Deceased	1862
Symington, T. J.	Camlachie	1881

T.

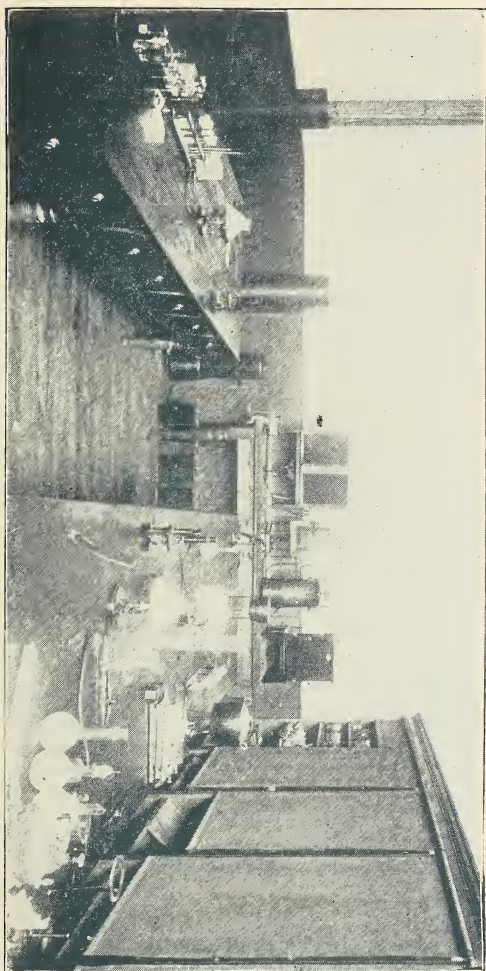
Taylor, James	Tara	1864
Taylor, Wm. F.	Brisbane, Queensland	1861
Teepell, E. W.	Watertown, N.Y.	1896
Thibodo, F. H.	Prairie City, Oregon	1896
Thibodo, Oliver	Los Angeles, Cal.	1857
Thibodo, Robert, B.A.	Deceased	1862
Thirkell, W. J.	Sodus, N.Y.	1861
Thompson, Hiram B.	Barrie	1888
Thompson, Wm. B.	Brooklyn, N.Y.	1892
Thorne, S. H.	Bobcaygeon	1887
Thornton, Thos. H.	Consecon	1870
Thornton, W. H.	Deceased	1864
Tillman, H. A.	Kingston, Jamaica	1895
Tillman, H. G.	Kingston, Jamaica	1889
Todd, S. G.	Woodland, Ind.	1890
Tracey, Robert	Belleville	1862
Tracey, Thos. B.	Deceased	1865
Trousdale, James C.	Deceased	1860
Turnbull, Agnes M. (Givens)	Kingston	1892
Turner, Adelaide	New York	1897
Tuttle, H. E.	Chase's Mills, N.Y.	1892
Tuttle, Leslie	Tweed	1875

V.

Valleau, Arch J.	Wolcott, Vt.	1891
Valleau, Geo. T.		1867
Van Allen, John R.	Denver, Col.	1871
Van Vlack, G. J.	Deceased	1869

W.

Waddell, W. H.	North Augusta	1880
Wade, R. J.		1888
Wade, W. R.		1888
Wafer, F. M.	Deceased	1867
Wager, E. N.	Hayburn	1896
Walkem, W. W.	Nanaimo, B.C.	1873
Walker, A. Holford	Toronto	1867
Walker, A. D.	Riverside, Cal.	1888
Walker, Hattie D.	Kingston	1890
Walker, Hugh	Riverside, Cal.	1897
Walker, S. R.	Papineau, Ill.	1889
Walkinshaw, Wm., B.A.	Stillwell, Ind.	1893
Wallace, David	Metcalfe	1881
Ward, Geo. E. Tremaine	Napanee	1879



PATHOLOGICAL AND BACTERIOLOGICAL LABORATORY.



Wardlaw, J. S.	Galt	1888
Warner, A. F.	Napanee	1887
Wartman, Philander G.	Deceased	1864
Watson, C. V.	Wellington	1863
Watts, E. J.	Moose Creek, Man.	1886
Watts, Thos. E.	Natural Bridge, N. Y.	1890
Webster, B. E., B.A.	Kingston	1896
Webster, W. J.	White Lake, Dak.	1884
Weeks, W. J.	Ottawa	1865
Weir, Janet	Merrickville	1891
Weir, Wm.	Deceased	1861
Wheeler, James W.	Cornwall	1892
White, A. N.	Denver, Col.	1886
White, James W.	Chicago, Ill.	1891
Whitney, A. W.	St. Paul, Minn.	1888
Whitteker, W. C.	North Williamsburg	1895
Williams, Herbert S.	Mount Vernon, Dak.	1884
Williams, Hugh G.	Vancouver, B.C.	1894
Wilson, Arthur C.	1891
Wilson, Charles J. C.	Montreal, Que.	1869
Wilson, John A.	Deceased	1863
Wilson, Thos., B.A.	Tara	1880
Wood, Isaac, B.A., M R.C.S., England, Prof. Queen's University, Kingston	1892
Wright, E. W.	Brooklyn, N. Y.	1886
Wright, T. A.	Russell, Man.	1888

Y.

Yates, Horatio	Deceased	1863
Yates, Octavius	Deceased	1856
Yeomans, Horace P., B.A.	Deceased	1863
Young, Daniel	Conway	1862
Young, David	Lower Fort Garry, Man.	1871
Young, Wm. A.	Westfield, Vt.	1894
Young, Wm. J.	Deceased	1883
Yourex, John McGill	Lonsdale	1876

FELLOWS.

Bethune, Alexander	Seaforth	1874
Bray, John L.	Chatham	1890
Cluness, William B.	San Francisco, Cal.	1871
Day, Henry W.	Belleville	1890
Dickson, John R.	Deceased	1866
Dupuis, Thomas R.	Deceased	1871
Fenwick, Kenneth N.	Deceased	
Fowler, Fife, L.R.C.S., Edin., 1846, M.D., Aberdeen, 1858	Kingston	1866
Fox, Joseph F., M.P., House of Com- mons, England	Queenstown, Ireland	1892
Henderson, Donald	Winnipeg	1886
Horsey, Edward H.	Deceased	1886
Irwin, Chamberlain Arthur	Deceased	1886
Kennedy, Roderick, L.R.C.S., Edin., 1843, M.D., University St Andrew, 1843	Bath	1886

Lavell, Michael	Toronto	1866
McLean, Donald, M.D., University Edin., 1862	Detroit, Mich.	1866
MacIntyre, Duncan	Glencoe	1893
Mark, Robert	Deceased	1871
Matheson, Murdoch	Waverly, New South Wales	1886
Moore, Vincent H.	Brockville	1890
Neish, James	Kingston, Jamaica	1874
Oliver, Alfred S.	Kingston	1873
Preston, Robert H.	Newboro	1890
Purdy, Charles W.	Chicago	1886
Reeve, Richard A.	Toronto	1866
Saunders, Herbert J.	Deceased	1871
Sullivan, Michael	Kingston	1866
Walker, A. Holford	Toronto	1891
Yates, Horatio	Deceased	1871
Yates, Octavius	Deceased	1871

LICENTIATES.

Abbott, Samuel	Deceased	1872
Adams, G. T. C.	Melbourne, N S W	1892
Alexander, James	Deceased	1869
Alway, Enoch	Binbrook	1860
Balfe, Thomas H.	Hamilton	1832
Barnes, Leander	Murray River, P. E I	1890
Bice, Mark	Hampton	1869
Bigham, Hugh	Fenelon Falls	1867
Bigham, James	Warsaw	1868
Bruce, Fred	Mount Morris, Mich.	1888
Booth, Donald B.	Deceased	1868
Burgar, C.	Niagara Falls	1870
Campbell, Albert L.	Penfold, N. Y.	1888
Chaffey, Ellswood	Ontario, California	1870
Chamberlain, Theodore F.	Toronto	1871
Clapham, Edward		1868
Close, James	Ohio, U S.	1873
Coleman, William F.	Chicago	1870
Corbett, Henry T.	Deceased	1868
Cornell, Charles	Brockville	1872
David, Alfred	Atlantic Mines, Mich.	1895
Davis, L. T.	Nanaimo, B. C.	1883
Davis, John J.	Kingston	1890
Davison, Meyers	Deceased	1874
Day, Barnabas W.	San Diego, Cal.	1871
Day, Jonathan	Deceased	1881
Dickson, John R., jr.	Deceased	1866
Dowsley, D. H.	Kingston	1875
Dugdale, John J.	Deceased	1867
Dunlop, James Donald	Alpena, Mich.	1886
Erichsen, Hugo	Detroit, Mich.	1883
Erly, Francis W. J.	Deceased	1868
File, Albert J.	Ameliasburg	1869
Fisher, Albert J.	Brigden	1893
Fralick, W. G.	New York City	1887
Fraser, Allen H.	Deceased	1867

Graham, William J.	Bothwell	1873
Green, J. B.	Mishawaka, Indiana	1891
Gunsolus, Kenneth	Detroit, Mich	1874
Hall, William	Qu'Appelle	1883
Hall, John D.	Deceased	1878
Harvey, Leander	Watford	1880
Harvey, W. D.	Hillsboro, Dakota	1867
Hay, William, B.A.	St Lawrence, N.Y.	1887
Henderson, K.	Clyde River, P.E.I.	1890
Hendry, George	Deceased	1869
Herriman, Weston Leroy	Lindsay	1869
Higginbotham, A.	Deceased	1868
Horse, Edward H.	Deceased	1871
Houston, William R.	Chatham	1871
Hutcheson, John	Meaford	1869
Johnstone, David	Kincardine	1869
Jones, De Witt Clinton	Toronto	1891
Keith, Sylvanus	New Glasgow, N.S.	1886
Kidd, Edward	Pictou	1881
Knight, John H.		1880
Koyle, F. H.	Hornellsville, N.Y.	1888
Lavell, Charles H.	Deceased	1873
Lavell, William A.	Deceased	1880
Lavers, Frank Charles	New Ross, N.S.	1891
McLean, Archibald	Ann Arbor	1880
Mark, Robert	Deceased	1867
McAmmond, J. F.	Scottsville, N.Y.	1889
McBroom, James Alexander	Gananogue	1895
McCutcheon, W. C.	Cassopolis, Mich.	1894
McDowell, John	Deceased	1880
McPhee, J. W.	Deceased	1886
McPherson, W. A.	Prescott	1890
Meadows, R. W.	H. M. Service	1866
Meagher, Augustus D.	Deceased	1869
Mitchell, Charles F.	South Bend, Ind.	1890
Mitchell, H. F.	South Lake, Ind.	1889
Munro, David	Perth	1867
Murphy, H. J.	Chatham	1867
McLean, Donald	Detroit	1868
McLennan, Alexander S.	Chicago	1873
Myers, Ambrose Richard	Forfar	1894
Nesbitt, Edward	Deceased	1868
Newell, James	418 Grand River Ave, Detroit	1869
Nimmo, John H.	Brockville	1886
Noel, J. V.	Deceased	1867
Ogilvie, James A.	Kingston, Jamaica	1891
Oliver, John K.	Deceased	1868
O'Sullivan, John	Deceased	1868
Patterson, Richard Langford	Buffalo, N.Y.	1885
Patterson, James B.	Port Elgin	1869
Potts, James McCumming	Belleville	1888
Price, Robinson B.	Kingston	1871
Purdy, Charles W.	Chicago	1869
Reid, John D.	Cardinal	1890
Rourke, Francis	Detroit	1867
Scott, William H. S.	Southampton	1890
Smith, George A. W.	Sydney, N.S.W.	1892

Spear, Hugh.....	Toronto	1868
Stark, Alexander.....	Berwick	1880
Stewart, Gerald J.....	Angus	1869
Symington, Thomas.....	Camlachie	1881
Tait, Stewart.....	Kingston, Jamaica	1890
Taplin, Albert Edward.....	Rochester, N.Y.....	
Thibodo, Francis H.....		1895
Thibodo, Robert.....	Deceased	1868
Tilman, Harry G.....	Kingston, Jamaica	1889
VanAllen, John R.....	Kansas City.....	1870
Vanvlack, Gilbert.....	Deceased	1870
Wilson, Charles J. C.....	Montreal	1869
Wafer, Francis W.....	Deceased	1867
Wood, William Field.....	Mishawaka	1889
Wood, Isaac.....	Kingston	1892
Young, David.....	Manitoba.....	1871

PASS MEN.

SUMMER SESSION, JUNE, 1897.

SANITARY SCIENCE.

Honours —Anderson, N. W., Elliott, H. H., Fadden, F. S., Stewart, A. E., Redmond, R. C., Collison, G. W., Hills, W. H., Tinkess, A. L., Moffatt, Wm., Kilborn, H. F.

Pass —Ilett, A. E., O'Connor, C. E., Condell, W. N., Jaquith, W. A., Gage, J. E.; Watson, E. C., Tripp, J. H., Paul, J. H., Waldren, H. N., Mather, J. F., Edmison, J. H., Young, W., Hanley, N., McKenty, D. F., Corrigan, D. J., O'Hara, J. J., McCambridge, C. J., Doyle, J. D.

BACTERIOLOGY

Honours.—Anderson, N. W., Redmond, R. C., Stewart, A. E., Hills, W. H.

Pass.—Elliott, H. H., Ilett, A. E., McKenty, D. F., Tripp, J. H., Condell, W. N., O'Hara, J. J., Callfas, W. F., Edmison, J. H.

DISEASES OF THE EYE.

Elliott, H. H., Hills, W. H., Moffatt, Wm., Redmond, R. C., Kilburn, H. F., Anderson, N. W., Condell, W. N., Ilett, A. E., O'Connor, C. E., Tripp, J. H.

BOTANY

Elliott, H. H., Hills, W. H., Hiscock, N. C., Morrison, R. C., O'Connor, C. E., Johns, C. P., Jaquith, W. A., Edmison, J. H., Condell, W. N., Kilborn, W. F., O'Hara, J. J., Corrigan, D. J., Doyle, J. D.

SUPPLEMENTARY EXAMINATIONS, SEPTEMBER, 1897.

SENIOR PHYSIOLOGY.

Stewart, A. E.

HISTOLOGY

Meek, C. F.

SENIOR ANATOMY.

Meek, C. F.

SENIOR MATERIA MEDICA, THERAPEUTICS AND PHARMACY.

Meek, C. F.

FIRST YEAR.

PHYSICS.

McDonald, A., McLennan, C., Graham, J. A., Gray, Douglas, Guy, W., Hanley, G. J., Porteous, C., Roy, E.

JUNIOR ANATOMY.

De St. Remy, C., McIntyre, A. D., Grimshaw, S., Bowie, H. and Bogart, J. G., equal; Richardson, E., McLellan, E. and Nugent, A., equal; Abbott, O. C., Paul, H. E., Redmond, W. C., Kinsley, A. D., McCulloch, J. W.; Fahey, E. W., and Young, M. R., equal; Clarke, J. T. A., and Porteous, C. A., equal; McDonald, A., Curtin, T. V., Hanley, Geo. P., Carr-Harris, F. F., Day, L. J., Moore, R. G., Graham, J. A., Gray, D. W., Stewart, A. J., McDonald, A. T., Roy, E., Graham, D., Guy, William, Lavell, W. H.

JUNIOR PHYSIOLOGY.

Richardson, E., Bowie, H. A., Bogart, J. G., Paul, H. E., de St. Remy, C., Guy, Wm., McIntyre, A. D., McCulloch, J. W., Abbott, O. C., Young, M. R., Grimshaw, S., McLellan, C., Fahey, E. W., Carr-Harris, F. F., Roy, E., Kinsley, W. J., Clarke, J. T. A., Porteous, C. A., Hanley, G. J., Lavell, W. H., Day, L. J., Graham, D., McDonald, A., Graham, Joseph A., Herdman, A. G., Kennedy, D. W., Moore, R. G., Stewart, A. J.

JUNIOR CHEMISTRY.

Bogart, J. G.; Bowie, H. A., and McCulloch, J. W., equal; Richardson, A., and de St. Remy, C., equal; McIntyre, A. D., Kennedy, D. W., Moore, R. G., Fahey, E. W., O'Hagan, T. F., Grimshaw, S., Graham, J. A., McCrea, H. H., Roy, E., McLellan, C., Ash, A. F., Hanley, G. J., Kinsley, W. J.

SECOND YEAR.

SENIOR ANATOMY.

Honours—McDermott, J. W., Johnston, T. H., Hall, W. A., Carmichael, R. F., Hiscock, R. C. Bridge, B. B., Baker, J. Y., Johns, C. P.; Ash, A. F., and Grant, A. F., equal; Nugent, A., and Burton, S., equal; Smith, S. M., and Allison, D. M., equal; Herdman, A. G., Davis, N. A.

Pass—Ferrier, G. C., Barnett, T. J., Ogilvie, H. G., McDonald, A. T., MacAuley, E. M., Kilborn, H. F., McConville, A., Curtin, T. V., McKay, W. H., O'Hara, J. J., O'Hagan, T., Ford, C. Y.

SENIOR PHYSIOLOGY.

Honours—Johnston, T. H., Hall, W., Bridge, B. B.

Pass—Johns, C. P., Carmichael, R. J., Hiscock, R., Ferrier, Geo., Burton, S., McDermott, J. W., Baker, J. Y., Allison, D. M., McCrea, H. H., Macauley, E. M., McConville, A., Herdman, A. G., Ash, A. F., Barnett, T. J., O'Hagan, T. F., McKay, M. H., Curtin, T. V.

HISTOLOGY.

Johnston, T. H., Bridge, B. B., Johns, C. P., Abbott, O. C., McDermott, J. W., Allison, D. M., Ferrier, Geo., McConville, A., Ash, A. F., Herdman, A. G., McDonald, A. T., Barnett, T. J., Smith, S. M., O'Hagan, T. F., O'Hara, J. J., Macauley, E. M., Curtin, T. V.

SENIOR CHEMISTRY

Bridge, B. B., Johnston, T. H., Tinkess, A. L., Johns, C. P., McDermott, J. W., Curtin, T. V., Ferrier, G. C., O'Hara, J. J., Barnett, T. J., Waldron, H. M., O'Hagan, T., Burton, S., Smith, S. M.

JUNIOR MATERIA MEDICA.

Bogart, J. G., McIntyre, A. D., Bowie, H. A., Young, M. R., McCulloch, J. W., Clarke, J. T. A.; Carr-Harris, F. F. and Fahey, E. W., equal; Redmond, W. C.; de St. Remy, C., and Richardson, A., equal; Grimshaw, S., and McLellan, C., equal; Porteous, C. A., and McDonald, A. E., equal; Guy, W., Moore, R. G., Roy, E., Kinsley, W. J., O'Hagan, T. F.

ANALYTICAL CHEMISTRY.

Johns, C. P., and Herdman, A. G., equal; Allison, D. M., and Johnston, T. H., equal; Hiscock, R. C., McDermott, J. W., Clarke, J. T. A., Bridge, B. B., Smith, S. M., Tinkess, A. L.; Ash, A. F., and Ferrier, G., equal; O'Hagan, T. F.; Carmichael, R. G., Curtin, T. V., and Burton, F., equal; McDonald, A. T.

PHYSIOLOGICAL CHEMISTRY.

Bridge, B. B.; Ford, C. Y., and Allison, D. M., equal; Johnston, T. H., and Barnett, T. J., equal; Carmichael, R. G.; Ferrier, G. C., and S. Burton, equal;

Tinkess, A. L.; Johns, C. P., and Herdman, A. G., equal; Curtin, T. V.; McDermott, J. W., O'Hagan, T. F., and Smith, S. M., equal; Hiscock, R. C., McDonald, A. T.; Ash, A. E., and VanLoven, R., equal.

THIRD YEAR.

JUNIOR PRACTICE OF MEDICINE.

Scribner, J. F., Cooper, E. G., Simpson, W. J., Young, W., Ilett, A. E., Goodwill, V. L., Armstrong, C. C., Ogilvie, H. G., Watson, E. C., Amys, C. H., Parker, R. D. W., Mather, J. F., Richardson, A. W., Williamson, A. R. B., Hunter, H. A., McKenty, D. F., McCrea, D. P., Grant, A. F., Mitchell, James, Goodchild, J. F., Hanley, J. H., Devlin, James, Huffman, R. W., McCrea, H. H., Hastings, Frank R., Abbott, O. C., Sadler, Geo. S., McConville, A., Meek, C. F., Shaw, A., McKay, M. H., Conner, F. E.

JUNIOR SURGERY.

Armstrong, C. C., and Watson, E. C., equal; Conner, F. E., Chapman, A. B., Mather, J. F., Tinkess, A. L., Grant, A. F., Williamson, A. R. B., Scribner, J. F., Cooper, E. G.; Devlin, James and Richardson, A. W., equal; Simpson, W. J., Hunter, H. A.; Parker, R. D., Sadler, G. S., and Young, W., equal; McKenty, D. F., Goodchild, J. F., Amys, C. H., Meek, C. F., McConville, A., McCrea, D. P.; Huffman, R. W., and Shaw, A., equal; Hastings, F. R., Mitchell, James, McCrea, H. H., Goodwill, V. L., McKay, M. H.

PATHOLOGY.

Honours—Watson, E. C., and Williamson, A. R.

Pass—McKenty, D. F., Scribner, J. F., Hunter, H. A., Chapman, A. B., Cooper, E. G., Young, W., Amys, C. H., Goodchild, J. F.; Hall, W. A., and Shaw, A., equal; Devlin, James; Mitchell, James, and Sadler, Geo. S., equal; Goodwill, V. L.; Menzies, R. D., and McCrea, H. H., equal; Richardson, A. W., Meek, C. F., equal; Ogilvie, H. G., and Simpson, W. J., equal; Parker, R. D.; Hanley, J. H., and McConville, A., equal; Macaulay, E. M., and McCrea, D. P.

JUNIOR OBSTETRICS AND PAEDIATRICS.

Simpson, W. J., and Armstrong, C. C., equal; Watson, E. C., Mather, J. F., and Parker, R. D. W., equal; Chapman, A. B., and Williamson, A. R. D., equal; Richardson, A. W., and Young, W., equal; Amys, C. H.; McCrea, H. H., Shaw, A., Mitchell, James, Goodchild, J. F., equal; Huffman, R. W., McKenty, D. W., equal; Tinkess, A. L., McCrea, D. P., Scribner, J. F., equal; Cooper, E.; O'Hara, J. J., Grant, A. F., Goodwill, V. L., equal; Hastings, F. R., Menzies, R. D., Devlin, James, Conner, F. E., equal; Hunter, H. A., Hanley, James H.; Meek, C. F., Birkett, F. W., Sadler, G. S., Macaulay, E. M., equal.

MEDICAL JURISPRUDENCE.

Honours—Young, W., Williamson, A. R. D., Simpson, W. J., Chapman, A. B., Amys, C. H., Cooper, E. G., Ogilvie, H. G., Watson, E. C.

Pass—McKenty, D. F., Devlin, James, Hunter, H. A., Grant, A. F., McCrea, H. H., Hanley, J. H.; Baker, J. Y., and Menzies, R. D., equal; Sadler, G. S., Mitchell, James, Parker, R. D.; Shaw, A., and Meek, C. F., equal; McConville, A., Huffman, R. W., Richardson, A. W., Nugent, A., McCrea, D. P., Conner, F. E., Goodchild, J. F., Clarke, J. T. A., Goodwill, V. L., Macaulay, E. M., McKay, M. H., Birkett, F. W.

JUNIOR MEDICAL AND SURGICAL ANATOMY.

Watson, E. C., Chapman, A. B., Conner, F. E., Williamson, A. R. B.; Hunter, H. A., Hall, W. A., and Simpson, W. J., equal; Sadler, G. S., Mitchell, James, Amys, C. H., McKenty, D. F., Grant, A. F., Hanley, J. H.; Richardson, A. W., Shaw, A., Goodchild, J. F., McCrea, D. P., Goodwill, V. L., equal; Meek, C. F., Cooper, E. G., Parker, R. D. W., Huffman, R. W., McCrea, H. H., Devlin, James, Hastings, F. R., McConville, A., McCrea, D. P.

SENIOR MATERIA MEDICA, THERAPEUTICS, AND PHARMACY.

Honours—Johns, C. P., and Bridge, B. B., equal; Johnston, T. H., Hiscock, R. C., and Baker, J. Y., equal; Hall, W. A.

Pass—M Dermott, J. W., Ferrier, G. C., Ogilvie, H. G., Carmichael, R. F., Abbott, O. C., Burton, S., Grant, A. F., Nugent, A., McDonald, A. T., Smith, S. M., Barnett, T. J., Allison, D. M., McKay, M. H., Macaulay, E. M., O'Hagan, T. F., Ford, C. Y., Lavell, W. H.

FOURTH YEAR.

SENIOR SURGERY AND CLINICAL SURGERY.

Honours—Elliott, H. H., Collison, G. W., Hills, W. H., Tinkess, A. L., Fadden, W. S.; O'Connor, C. E., and Stewart, A. E., equal; Armstrong, C. C., Davis, N. A., Malone, H. N., Morrison, C. A.; Condell, W. M. and McCambridge, C. J., equal.

Pass—Corrigan, D. J., Anderson, N. W., Moffatt, W.; Jaquith, W. A., and Kilborn, H. F., equal; Mather, J. F., Burger, C. H., Redmond, R. C., Callfas, W. F., Hanley, R., Paul, J. H.; Scribner, J. H., and Lake, E. J., equal; Young, W.; Gage, J. E., and Ilett, A. E., equal; Birkett, F. W.; Doyle, J. D., O'Hara, J. J., Pike, N. J., and Waldren, H. M., equal; Smith, A. G.

SENIOR OBSTETRICS AND GYNAECOLOGY.

Honours—Morrison, C. A., Elliott, H. H., Tinkess, A. L., Fadden, W. S., Ilett, A. E.; Armstrong, C. C., and Collison, G. W., equal; O'Connor, C. E.; Anderson, N. W., and Hills, W. H., equal; Jaquith, W. A., Malone, H. D., Corrigan, D. J., Hanley, R.

Pass—Condell, W. N., Burger, C. H.; Callfas, W. F., and N. A. Davis, equal; Moffatt, W., Mather, J. F., Young, W.; Lake, E. J., Redmond, R. C., Scribner, J. F., equal; Stewart, A. E., Paul, J. H., Gage, J. E., Waldren, H. M., equal; Kilborn, H. F., McCambridge, C. J., O'Hara, J. J., Doyle, J. D., Birkett, F. W., Pike, N. J., Smith, A. G.

SENIOR MEDICAL AND SURGICAL ANATOMY.

Honours—Elliott, H. H., Anderson, N. W.; Armstrong, C. C., and Hills, W. H., equal; McCambridge, C. J., Ilett, A. E.; Fadden, W. S., and Morrison, C. A., equal; Corrigan, D. J., Tinkess, A. L.

Pass—Moffatt, W., Redmond, R. C.; Scribner, J. F., and Stewart, A. E., equal; Collison, G. W., and Gage, J. E., equal; Malone, H. V., Young, W., Condell, W. N.; Burger, C. H., and O'Connor, C. E., equal; Davis, N. A., and Jaquith, W. A., equal; Hanley, R. Paul, J. H.; Mather, J. F., and Callfas, W. F., equal; Lake, E. J., Kilborn, H. F., O'Hara, J. J., Waldren, H. M., Pike, N. J., Doyle, J. D., Birkett, F. W.

SENIOR PRACTICE OF MEDICINE AND CLINICAL MEDICINE.

Honours—Armstrong, C. C., Fadden, W. S., Tinkess, A. L., Moffatt, W., Elliott, H. H., Jaquith, W. A.; Redmond, R. C., and Collison, G. W., equal; Scribner, J. F.; Morrison, C. A., and Young, W., equal; Burger, C. H., Condell, W. N., Mather, J. F. and McCambridge, C. J., equal.

Pass—Hills, W. H., Stewart, A. E.; Anderson, N. W., and Ilett, A. E., equal; Davis, N. A.; Corrigan, D. J., Hanley, R., and O'Connor, C. E., equal; Callfas, W. F., Lake, E. J., Smith, A. G., Waldren, H. M., Malone, H. V., and Paul, J. H., equal; Kilborn, H. F., Gage, J. E.

SANITARY SCIENCE.

Honours—Davis, N. A., Scribner, J. F.

Pass—Hanley, J. H., Birkett, F. W.

DISEASES OF THE EAR AND NOSE.

Huffman, M. D., F. G., Williamson, A. R. B., Fadden, W. S.

BACTERIOLOGY.

Hanley, R., Amys, C. H.; Malone, H. V., and Davis, N. A., equal.

